

Stormwater Division

MEMORANDUM

DATE:

March 12, 2010

TO:

Michael J. Gillis, Virginia Correctional Enterprises Document Management Services

FROM:

Jo Anna Ripley, Stormwater

PO:

270712

RE:

Files Approved for Scanning

General File ID or BMP ID:

PC238

PIN: 3830100034A

Subdivision, Tract, Business or Owner

Name (if known):

Windsormeade Marketplace

Property Description:

Shopping Center

Site Address:

3975 Windsormeade Way

(For internal use only)

18 Drawer:

N/A 050003825

Page:

030023373

Agreements: (in file as of scan date)

Box Y

Book or Doc#:

Comments

Created By:		PC238 Print Record	MAINTENANCE PLAN	Yes	CTRL STRUC DESC	Trash Rack
			SITE AREA acre	2.82	CTRL STRUC SIZE inches	
WATERSHED	PO .	PRINTED ON	LAND USE	Mixed Use	OTLT BARRL DESC	RCP
	726	Thursday, March 11, 2010	old BMP TYP	Wet Pond	OTLT BARRL SIZE inch	12
	SP-05-04	4.16.46 PM	JCC BMP CODE	A3 Wet ED Pond		House State
	2005	T.TO.TOT IVE				r ·
TAX PARCEL 3	38-3		POINT VALUE		EMERG SPILLWAY	Yes
PIN NO 1	1-34A				DESIGN HW ELEV	57.76
CONSTRUCTION DATE	10/1/2008				PERM POOL ELEV	55.38
PROJECT NAME V	WindsorMeade Villas Road	f	SVC DRAIN AREA acres	2.1	2-YR OUTFLOW cfs	56.02
FACILITY LOCATION E	Behind Guard Shack				10-YR OUTFLOW cfs	56.77
CITY-STATE V	Williamsburg, Va				REC DRAWING	No
CURRENT OWNER V	Virginia United Methodist Home		SERVICE AREA DESCRI	Service Hall & WMW Roads	V Roads	
OWNER ADDRESS			IMPERV AREA acres	0.44	CONSTR CERTIF	Yes
s ·			RECV STREAM	Powhatan Creek		
	4704 Shortley Way		EXT DET-WQ-CTRL	No LAST	LAST INSP DATE 1/22/2010	Inspected by: Greg Johnson
CITY-STATE-ZIP CODE W	Williamsburg, Va 23188		WTR QUAL VOL acre-ft		u,	
OWNER PHONE 70	757-565-6200		CHAN PROT CTRL	No	MISC/COMMENTS	
MAINT AGREEMENT Y	Yes		CHAIN PROT VOL ACIE-IL		Wet Pond along south side of road before	of road before
EMERG ACTION PLAN Yes	es		SW/FLOOD CONTROL	No	wall at turn into Windsor Hall	#
0A. 198889	G		GEOTECH REPORT	No		
Get Last BMP No	Return to Menu					

Additional Comments:

COUNTY OF JAMES CITY, VIRGINIA

DECLARATION OF COVENANTS

INSPECTION/MAINTENANCE OF DRAINAGE SYSTEM

THIS DECLARATION, made this Mth. day of February, 20 05,
between VIRGINIA UNITED METHODIST HOMES, INC., and
all successors in interest, ("COVENANTOR(S),") owner(s) of the following property:
Street Address: 144 JESTERS LANE
Legal Description: 105.931 AC CC CASEY LIMITED COMPANY
Project Name: WINDSORMEADE VILLA ENTRANCE AND SEWER CONSTRUCTION PLAN
Document No. <u>030023373</u> , Deed Book, Page No;
Instrument No, and the County of James City, Virginia ("COUNTY.")

WITNESSETH:

We, the COVENANTOR(S), with full authority to execute deeds, mortgages, other covenants, and all rights, titles and interests in the property described above, do hereby covenant with the COUNTY as follows:

- 1. The COVENANTOR(S) shall provide maintenance for the drainage system including any runoff control facilities, conveyance systems and associated easements, hereinafter referred to as the "SYSTEM," located on and serving the above-described property to ensure that the SYSTEM is and remains in proper working condition in accordance with approved design standards, and with the law and applicable executive regulations. The SYSTEM shall not include any elements located within any Virginia Department of Transportation rights-of-way.
- 2. If necessary, the COVENANTOR(S) shall levy regular or special assessments against all present or subsequent owners of property served by the SYSTEM to ensure that the SYSTEM is properly maintained.
- 3. The COVENANTOR(S) shall provide and maintain perpetual access from public right-of-ways to the SYSTEM for the COUNTY, its agent and its contractor.
- 4. The COVENANTOR(S) shall grant the COUNTY, its agent and its contractor a right of entry to the SYSTEM for the purpose of inspecting, monitoring, operating, installing, constructing, reconstructing, maintaining or repairing the SYSTEM.
- 5. If, after reasonable notice by the COUNTY, the COVENANTOR(S) shall fail to maintain the SYSTEM in accordance with the approved design standards and with the law and applicable executive regulations, the COUNTY may perform all necessary repair or maintenance work, and the COUNTY may assess the COVENANTOR(S) and/or all property served by the SYSTEM for the cost of the work and any applicable penalties.

Instrument # 05 000 38 25 Page 1 of 3 Recorded on Feb. 23, 2005

- 6. The COVENANTOR(S) shall indemnify and save the COUNTY harmless from any and all claims for damages to persons or property arising from the installation, construction, maintenance, repair, operation or use of the SYSTEM.
- 7. The COVENANTOR(s) shall promptly notify the COUNTY when the COVENANTOR(S) legally transfers any of the COVENANTOR(S)' responsibilities for the SYSTEM. The COVENANTOR(S)' shall supply the COUNTY with a copy of any document of transfer, executed by both parties.
- 8. The covenants contained herein shall run with the land and shall bind the COVENANTOR(S) and the COVENANTOR(S)' heirs, executors, administrators, successors and assignees, and shall bind all present and subsequent owners of property served by the SYSTEM.
 - 9. This COVENANT shall be recorded in the County Land Records.

IN WITNESS WHEREOF, the COVENANTOR(S) have executed this DECLARATION OF COVENANTS as of the date first above written.

	COVENANTOR(S)
	Wm. Jeyl Dish
ATTEST:	Print Name/Title Nm. Jery I Fink, Presiden
James Frankling	
	COVENANTOR(S)
A TOTAL OF	Print Name/Title
ATTEST:	

COMMONWEALTH OF VIRGINIA	
CJPY/COUNTY OF Henrics	
Thereby certify that on this 11 Hay of 1	20.45 hafara tha guhaarihad a
Never P. 11: Co. 11. Co.	2005, before the subscribed, a
I hereby certify that on this // day of flow Notary Public for the Commonwealth of Virginia, person and did acknowledge the aforegoing instrument	ally appeared Mm. Quy
IN WITNESS WHEREOF, I have hereunto set my	hand and official seal this 11th day of
IN WITNESS WHEREOF, I have hereunto set my land the set of the set	
	Sold M. Walker Motary Public
	Motary Mablic
My Commission expires: 9-30-08	
The commission expires.	
Approved as to form:	
MINNIC	
- Mh 14 khy	
County Attorney	en y Nagar Paramanan
	This Declaration of Covenants prepared by:
	JAMES D. FRANKLIN
	(Print Name)
	(Print Name) ENGINEERING & CONSTRUCTION MCR.
	(Title)
	453 MCLAWS CIPCLE, SUITE =
	(Address)
	WILLIAMSBURG. VA 23185
	(City) (State) (Zip)
	757-565-9670
	(Phone Number)

drainage1.pre

WindsorMeade Villa Entrance and Sewer Plan

SWM/BMP BOUYANCE CALCULATIONS

March 17, 2004

Note: THESE CALCULATION PROVIDED TO INSURE THE PRINCIPAL SPILLWAY / RISER DOES NOT HAS THE TENDENCY TO FLOAT.

ELEVATIOIN OF RISER CREST =

56.0

ELEVATION OF INVERT OF RISER =

53.5

(AFTER GROUTING)

INSIDE DIAMETER OF RISER =

feet 🗸

OUTSIDE DIAMETER OF RISER =

6 feet

WEIGHT OF WATER DISPLACED BY AIR

Weight of water displaced by air: Weight of water per cu. Ft. * 3.14 * (Diameter of riser / 2)^2 * (El. Of Riser Creast - El. Of riser invert)

Cicast - El. Of fiser

WEIGHT OF PRINCIPAL SPILLWAY / RISER

Weight of water displaced by air 3,062 lbs.

Weight of concrete of riser =

(Weight of concrete per cu. Ft. * 3.14 * (Outside diameter of riser / 2) 2 * (El. Of Riser

Creast - El. Of riser invert)) - (Weight of concrete per cu. Ft. * 3.14 * (Inside diameter of

riser / 2)^2 * (El. Of Riser Creast - El. Of riser invert))

Weight of Concrete Riser =

3,238 lbs.

Weight of EW-11 =

4,255 lbs.

(Based on 28cuft of concrete)

Weight of Extend Base Only =

- lbs.

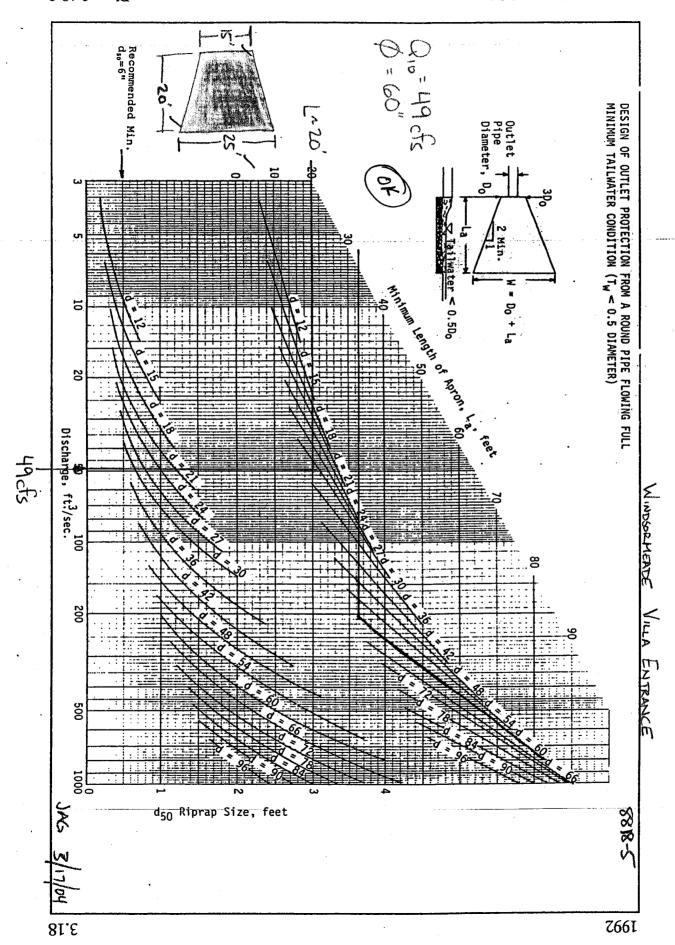
Total Weight of Riser =

7 493 lbs

Total Weight of Riser > Weight of Water Displaced, I.e. Will not float!

, st	SUBSCRIPT DEFINITIONS: a. APPROXIMATE i CULVERT FACE industrial in Incet control he Headwater in Incet control incet control section of Streamed at Culvert Face it Tallwater	(1) USE Q/NB FOR BOX CULVERTS (2) HW ₁ /D • HW /D OR HW ₁ /D FROM DESIGN CHARTS (3) FALL • HW ₁ - (EL _{hd} - EL _{hf}); FALL IS ZERO FOR CALVERTS ON GRADE	TECHNICAL FOOTNOTES:			DESIGN FLOWS/TAILWATER R.I. (YEARS) FLOW(cfi) TW Oyr 49 cfs 40	DRAINAGE AREA: 30AC STREAM DRAINAGE STREAM OF CHANNEL SHAPE: NATURAL ~ THERE	1 5 1
U=11-76 FPS	SUT CHECK (BONDACK). 10-12 INVELT 18:99 ONLEL 18:99 ONLELCK (BONDACK). 10-16	(4) ELM: HWIT ELI (HVERT OF INLET CONTROL SECTION) HARTS (5) TW BASED ON DOWN STREAM CONTROL OR FLOW DEPTH IN CHANNEL.			FALL EL,	20 Et 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	STREAM SLOPE: 2-57).	STATION :
	T 657 T 657 T 657 T 657 T 657	(6) h ₀ • TW or (d _c +D/2)(WHICHEV (7) H• [i+h ₀ + (29 ⁿ² L)/R ^{L33}] V ² (8) EL _{ho} " EL _o +H+h _o		1.00 - 1.5 3.5 0.2 ~ C	EADWATER CALCULATIONS OUTLET CON TW dc dc+D ho (5) ho	(11) CFALL S = S	HWI TELM TIGHT STEEL THE S	OF CU
COLUMN CE ST. COMPANY	// // // // //	N WHICHEVER IS GREATER)	10-48 48,8 (HWICHA	18.2 18.8 V. OK	CONTROL HEADWATER ELEVATION	FALL/L	(11)	CULVERT DESIGN FORM DESIGNER / DATE ACT / 3/17/0

5/55







Calculations For James City County Environmental Division

5P-05-04 2ND 5VB

Prepared by



AES Consulting Engineers 5248 Olde Towne Road. Suite 1 Williamsburg, VA 23188 (757) 253-0040 Fax: (757) 220-8994 http://www.aesva.com

Pond Report

Hydraflow Hydrographs by Intelisoive

Monday, Mar 29 2004, 2:58 PM

Pond No. 6 - WM VILLA CROSSING

Elevation (ft)

= 46.00

= 50.00

Pond Data

Stage (ft)

No. Barrels

Invert El. (ft)

Length (ft)

Pond storage is based on known contour areas. Average end area method used.

Contour area (sqft)

0

0.00

0.00

0.00

0.00

0

0.00

0.00

Stage / Storage Table

0.00 2.00 4.00 6.00	46.00 48.00 50.00 52.00	25 p.T 61.25	2,631 10,353 24,303 43,172		0 12,984 34,656 67,475	,	0 984 640 115			
Culvert / C	Orifice Structu	res			Weir Struct	ures				
	[A]	[B]	[C]	[D]		[A]	[B]	[C]	[D]	
Rise (in)	= 60.00 🗸	0.00	0.00	0.00	Crest Len (ft)	= 0.00	0.00	0.00	0.00	
Span (in)	= 60.00	0.00	0.00	0.00	Crest El. (ft)	= 0.00	0.00	0.00	0.00	

Incr. Storage (cuft)

Weir Coeff.

Weir Type

Multi-Stage

= 0.00

=

= No

Slope (%) = 2.60 🗸 0.00 0.00 0.00 = .013 🗸 N-Value .000 .000 .000 Orif. Coeff. = 0.600.00 0.00 0.00 Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 46.01 ft Multi-Stage = n/aNo No No

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.

0.00

No

0.00

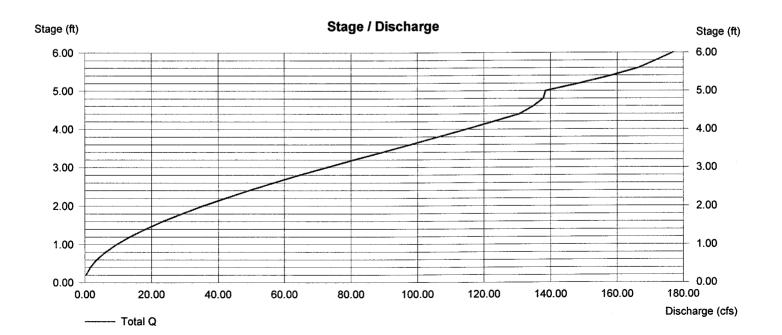
No

Total storage (cuft)

0.00

Νo

7-12. 47.07 47.44 1-12. 48.40 2-18. 49.24 100-16.



Hydraflow Hydrographs by Intelisolve

Monday, Mar 29 2004, 2:58 PM

Hyd. No. 18

WM VILLA X-ING ROUTED

Hydrograph type = Reservoir Storm frequency = 1 yrs Inflow hyd. No. = 17

= WM VILLA CROSSING Reservoir name

Peak discharge

= 10.96 cfs

Time interval

 $= 3 \min$

Max. Elevation

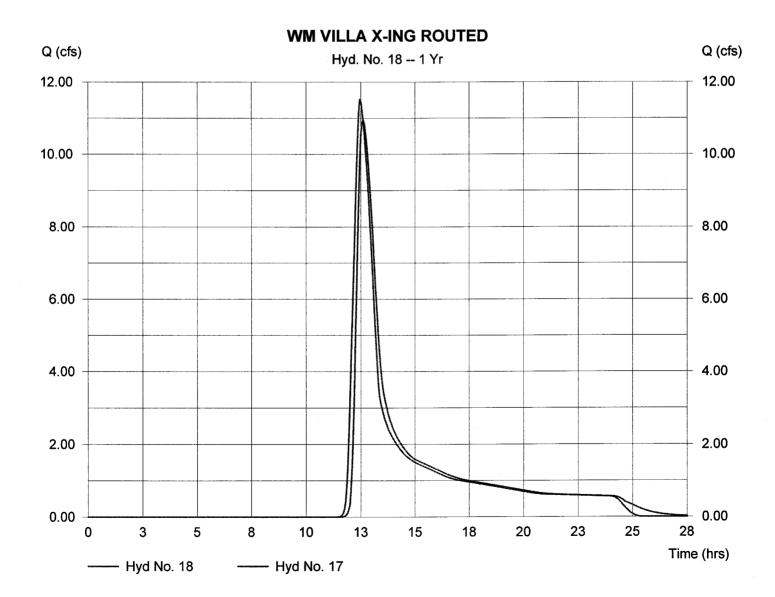
= 47.07 ft

Max. Storage

= 6,954 cuft

Storage Indication method used.

Hydrograph Volume = 80,330 cuft



Hydraflow Hydrographs by Intelisolve

Monday, Mar 29 2004, 2:58 PM

Hyd. No. 18

WM VILLA X-ING ROUTED

Hydrograph type = Reservoir Storm frequency = 2 yrs Inflow hyd. No. = 17

Reservoir name = WM VILLA CROSSING Peak discharge Time interval

= 19.29 cfs

Max. Elevation

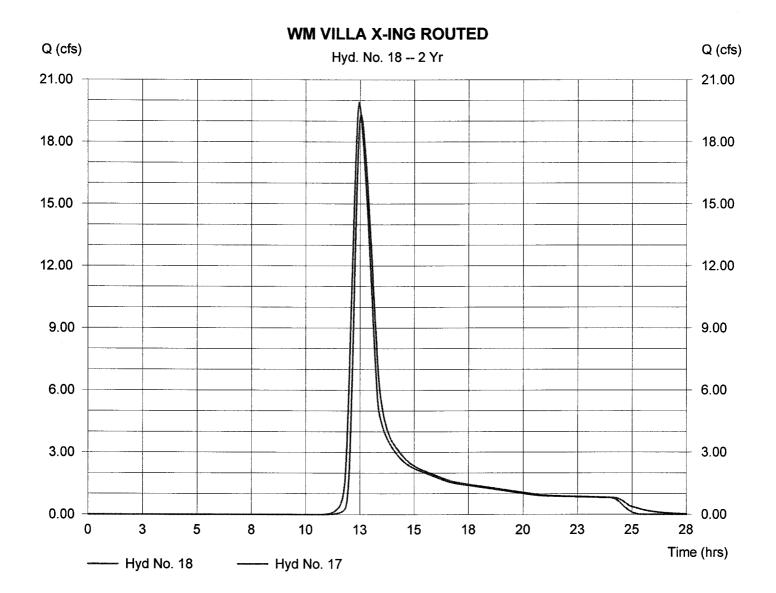
= 3 min= 47.44 ft

Max. Storage

= 9,377 cuft

Storage Indication method used.

Hydrograph Volume = 128,565 cuft



Hydraflow Hydrographs by Intelisolve

Monday, Mar 29 2004, 2:58 PM

Hyd. No. 18

WM VILLA X-ING ROUTED

Hydrograph type = Reservoir Storm frequency = 10 yrsInflow hyd. No. = 17

Reservoir name

= WM VILLA CROSSING

Peak discharge Time interval

= 49.37 cfs

= 3 min

Max. Elevation

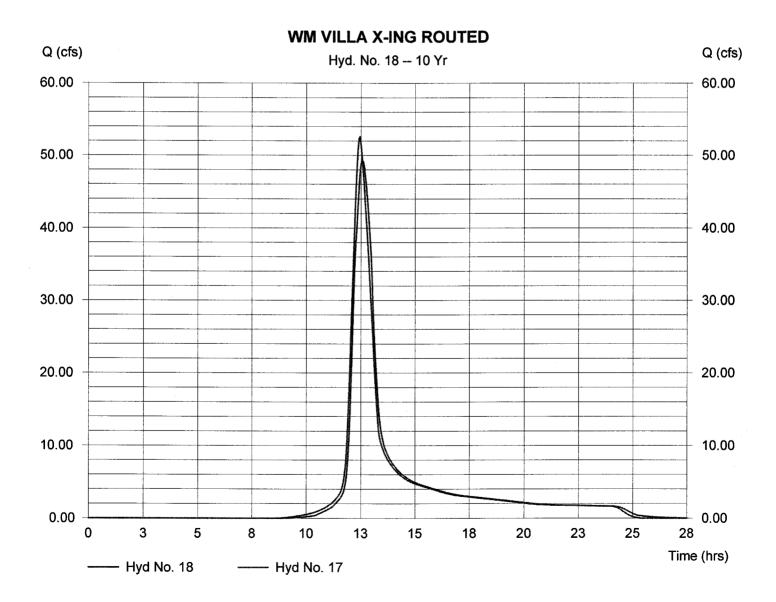
 $= 48.40 \, \text{ft}$

Max. Storage

= 19,996 cuft

Storage Indication method used.

Hydrograph Volume = 318,626 cuft



Hydraflow Hydrographs by Intelisolve

Monday, Mar 29 2004, 2:58 PM

Hyd. No. 18

WM VILLA X-ING ROUTED

Hydrograph type = Reservoir Storm frequency = 100 yrsInflow hyd. No. = 17

Reservoir name = WM VILLA CROSSING Peak discharge Time interval

= 82.45 cfs

 $= 3 \min$

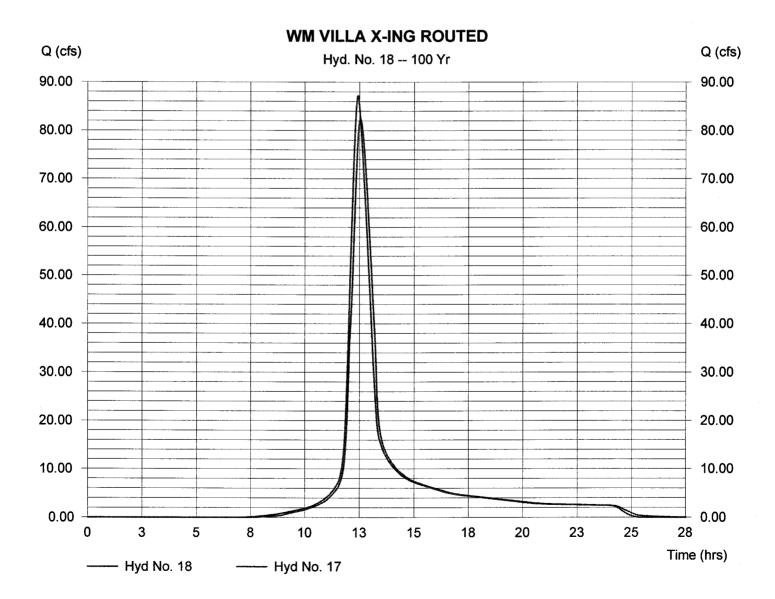
Max. Elevation = 49.24 ft

Max. Storage

= 34,427 cuft

Storage Indication method used.

Hydrograph Volume = 524,232 cuft



Culvert Calculator Report Worksheet-1

Solve For: Headwater Elevation

Culvert Summary				
Allowable HW Elevation	61.25 ft	Headwater Depth/ Height	0.61	
Computed Headwater Elev	ation 49.06 ft	Discharge	49.00 c	fs (10-70
Inlet Control HW Elev	4 8.69 ft	Tailwater Elevation	46.00 ft	
Outlet Control HW Elev	49.06 ft	Control Type	Entrance Control	
Grades				
Upstream Invert	46.00 ft	Downstream Invert	44.70 ft	
Length	50.00 ft	Constructed Slope	0.026000 ft	/ft
Hydraulic Profile				
Profile	\$2	Depth, Downstream	1.32 ft	
Slope Type	Steep	Normal Depth	1.15 ft	2 :
Flow Regime	Supercritical	Critical Depth	1.96 ft	
Velocity Downstream	11.76 ft/s	Critical Slope	0.003352 ft	/ft
Section				
Section Shape	Circular	Mannings Coefficient	0.013	
Section Material	Concrete	Span	5.00 ft	
Section Size	60 inch	Rise	5.00 ft	
Number Sections	1			
Outlet Control Properties				
Outlet Control HW Elev	49.06 ft	Upstream Velocity Head	0.73 ft	
Ke	0.50	Entrance Loss	0.37 ft	
Inlet Control Properties				
Inlet Control HW Elev	48.69 ft	Flow Control	Unsubmerged	
Inlet Type Sc	quare edge w/headwall	Area Full	19.6 ft	2
K	0.00980	HDS 5 Chart	. 1	
M	2.00000	HDS 5 Scale	1	
C	0.03980	Equation Form	1	
Υ	0.67000			







Calculations For James City County Environmental Division

5P-5-04 AL

Prepared by



AES Consulting Engineers 5248 Olde Towne Road. Suite 1 Williamsburg, VA 23188 (757) 253-0040 Fax: (757) 220-8994 http://www.aesva.com



5248 Olde Towne Road • Suite 1 • Williamsburg, Virginia 23188 (757) 253-0040 • Fax (757) 220-8994 • E-mail aes@aesva.com

May 12, 2004

MAY 2004

MAY 2004

MAY 2004

MAY 2004

MAY 2004

James City County Planning Development Management 101-E Mounts Bay Road Williamsburg, VA 23187-8784

RE: WindsorMeade - Villa Entrance and Sewer Construction

Former JCC Case No. SP-005-04

AES Project No. 8818-05

Dear Mr. Anderson:

This letter is a response to the requested changes or revisions to the WindsorMeade Villa Entrance site plan. Changes or revisions were made to these documents to address the items provided in your letter of February 10, 2004.

Planning:

Item 1: Whorled Pogonia Survey

The whorled pogonia survey is still awaiting final approval and will be forwarded to the county as soon as it is available.

County Engineer:

No comments to address

Fire Department:

No comments to address

VDOT:

No comments to address

JCSA:

General

Item 1: Fire Flow Required for Windsor Hall

ISO calculations have been submitted to the fire department directly and to JCSA with this plan submission for review. We have decided to upsize the lines within the hall plan from

May 12, 2004

Page 2

8" to 12" in advance of the fire department review due to future buildout of the site. This has allowed the site to reach the 2500 gpm county requirement.

Sheet No. 3

Item 1: Manhole Rim Elevations

The manhole rim elevations have been verified and updated as necessary.

Item 2: Temporary Grading

The temporary grading at the end of the proposed roadway has been shown in profile as requested.

Sheet No. 4

Item 1: MH# 21

The depth of MH#21 has been updated.

Item 2: MH# 23

The depth of MH#23 has been updated.

Item 3: Culvert Note

The culvert crossing note has been updated to "...joint centered under existing culvert" as requested.

Item 4: Pipe Length and slope beyond MH # 23

The pipe length and slope has been corrected in plan and profile.

Sheet No. 5

Item 1: Existing Easements

The leader lines identifying the existing easements have been provided.

Sheet No. 6

Item 1: Water and Sewer Utilities

The utilities have been added (screened) to the erosion and sediment control sheet as requested.

Sheet No. 10

Item 1: Note 7

Note 7 has been updated. The note now indicates that a JCSA approved paint scheme shall be used on the interior and exterior of the vault.

Item 2: Paint Scheme

The paint scheme table as provided by JCSA has been added to the detail sheet for reference.

Item 3: Grading around Vault

The finish grade has been added to the detail 6" below the top and sloping away from the vault.

Item 4: Drain Line

The drain line has been indicated on the detail and shown on sheets 3 and 7 as requested.

Item 5: Coupling

The coupling has been removed from the vault detail as requested.

Item 6: Wall Sleeve

Wall sleeves and link seals have been indicated as requested.

Sewer Data Sheet

Item 1: Pipe Lengths

Pipe lengths have been verified based on the plan layout.

Item 2: Average MH Depths

The MH depths have been revised.

Water Data Sheet

Item 1: Windsor Hall Domestic Demands

Information on the Hall domestic demands has been provided.

Item 2: Pipe Lengths

Pipe lengths have been verified based on the plan layout.

Item 3: Water Meter

The required water meter size has been added to the data sheet as requested.

Item 4: Supporting Documentation for 5F

The maximum day plus fire calculation is provided at the "worst case" node during the fire flow event. Since there are no hydrants proposed on this plan, the worst case hydrant was taken on from the Hall site (node H-6).

Item 5: Supporting Documentation for 5H

All supporting documentation that is available for the hydrant flow tests has been provided with the model.

Water Distribution Model

Item 1: Max Day w/Fire Flows

As requested, the fire flow designation has been removed from the maximum day demand scenario.

Item 2: Pipes less than 8 inches

The pipes less than 8" have not been removed. These should have no significant effect on the model and would eliminate a majority of the pipes within the villa section which has 6" mains.

Item 3: Pipe lengths

The pipe lengths applied within the model are approximate based on a scaled overlay of the system but are adequate to represent the flows and pressures within the system. If there is a certain question about the pipe lengths please feel free to contact Marc Bennett or myself.

Item 4: Fire flow of 2500gpm

A fire flow of 2500gpm has been added to the hydrant locations around Windsor Hall.

Item 5: Pump and Reservoir Reports

Pump and reservoir reports have been added to each scenario as requested.

Environmental Department:

Chesapeake Bay Preservation:

Item 1: RPA Wetlands

It is understood that the perennial stream issue is still outstanding. Please contact us as soon as more direction can be given on this issue.

Erosión & Sediment Control Plan:

Items 2: Outlet Protection

The outlet protection has been labeled on sheet 6 as requested.

Stormwater Management/Drainage:

Item 3: Culvert Crossing

The calculated water surface elevations at the culvert crossing have been indicated as requested.

Item 4: Villa Entrance BMP

A stilling basin has been added as a pretreatment device and calculations have been provided.

Item 5: BMP Details

Notation on the riser structure and base has been added to the BMP cross-section (the VDOT Junction box has a standard 10" thick base). In the EW-11 detail notation about the removable bar grate/trash rack has been added. The sediment basin dewatering detail has been modified to indicate a galvanized steel strap to attach the dewatering tube to the riser.

I would like to thank you and the other agencies involved for their assistance in the review of this project. Should any further questions arise, please feel free to contact us.

Sincerely,

AES Consulting Engineers

Jason Grimes
Project Engineer

S:\JOBS\8818\05-WM_Villa Site\Wordproc\Document\Entrance\881805102.entrance.jag.doc

FOREBAY SIZING

(WM Villa Entrance- EX. Detention Dry Pond)

Impervious Acres to Storm System 1

0.70 Ac.

@ 0.25 inches / impervious Acre =

635 cu. Ft.

24 cu. Yd.

@ 0.1 inches / impervious Acre =

254 cu. Ft. 9 cu. Yd.

296 cu. Ft. (10'x10' STILLING BASIN)

5/11/2004
by JAG

6/11/2004
by JAG

6/12/3/14/5/6/7

6/16/14/5/6/7

8/14/14/16/02/62/86/14/14/14/16

Sum
Volume
(cu. yd.)

FOREBAY SIZING

(WM Villa Entrance- EX. Detention Dry Pond)

Impervious Acres to Storm System 1

0.70 Ac.

@ 0.25 inches / impervious Acre =

635 cu. Ft.

24 cu. Yd.

@ 0.1 inches / impervious Acre =

254 cu. Ft. 9 cu. Yd. MAY 2004

5/11/2004 by JAG

PLANNING DEPA

Volume Provide = 296 cu. Ft. (10'x10' \$TILEING BASIN)									
Elevation	<u>Depth</u>	Area (sq. ft.)	incremental Volume (cu. ft.)	Inc. Volume (cu. yd.)	Sum Volume (cu. ft.)	Sum Volume (cu. yd.)			
54.0		100	0		100.11.1	(ou. yu.)			
56.0	2.0	196	296	11	296	11			

RECEIVED



U.S. Army Corps Of Engineers Norfolk District

DEC 1 7 2002

Fort Norfolk, 803 Front Street Norfolk, Virginia 23510-1096

August 23, 2002

Wmsbg Environmental Grp

DEPARTMENT OF THE ARMY PERMIT

Permittee:

Virginia United Methodist Homes

Mr. William Jeryl Fink 7113 Three Chopt Road

Richmond, Virginia 23226

Permit No.:

02-V0454-18

Issuing Office: Norfolk

Norfolk District, Corps of Engineers

DUPLICATE

Note: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below pursuant to:

() Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

() Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

<u>Project Description</u>: You plan to construct a 2 lane primary entrance road to the proposed WindsorMeade of Williamsburg development which will be located on a portion of the Casey Tract/New Town Property. The road design allows for several future spurs off this primary roadway. The roadway will be constructed separately from the WindsorMeade development, because it will provide access to additional future development activities.

Construction of the proposed 3200+ foot long road would entail 4 different areas of fill or crossings of jurisdictional wetlands. The location and extent of the proposed roadway and associated roadway fills are depicted on the drawing entitled "Wetland Impacts Map, WindsorMeade Way, James City County, Virginia" prepared by Williamsburg Environmental Group and dated February 15, 2002 (copy attached). The roadway would result in cumulative impacts to approximately 0.38 acres of forested wetlands and 56.58 linear feet (0.04 acres) of intermittent stream channel. The 2 wetland road crossings will be culverted. The culverts will be countersunk a minimum of 2 inches to ensure hydrologic connectivity between the wetlands traversed by this access road.

You have proposed to compensate for the unavoidable project impacts to waters of the United States (including wetlands) at an offsite location. An actual mitigation plan or proposal has not been provided. Project Specific Conditions #5-#9 below address compensatory mitigation requirements.

<u>Project Location</u>: The project site is located at 4692 Old News Road on a larger undeveloped parcel in James City County, Virginia (PIN 3830100034). The work would occur in wetlands located above the headwaters of Cool Springs Swamp, a tributary of Powhatan Creek. The project location map is attached.

Project Specific Conditions:

1. Prior to the commencement of any work authorized by this permit, you shall advise Mr. Steven Martin in writing (letter, e-mail, or FAX) at: Norfolk District, Army Corps of Engineers, Regulatory Branch, 803 Front Street, Norfolk, Virginia 23510, steven.m.martin@usace.army.mil, (757) 41-7678 (FAX) of the time the authorized activity will commence and the name and telephone number of all contractors or other persons performing the work. A copy of this permit and drawings must be provided to the contractor and made available to any regulatory representative during an inspection of the project site.

- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 3. Reliance on Applicant's Data. The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 4. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time that the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 3 above).
 - c. Significant new information surfaces, which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

5. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit.

Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as a permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

(Permittee) Providence

12/6/02

(Date)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Nicholas L. Konchuba Chief, Eastern Virginia Regulatory Section

(Date)

Special Conditions:

1. No discharge of dredged or fill material may consist of unsuitable material (e.g.: trash, debris, car bodies, asphalt etc.) and material discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

2. Any temporary fills must be removed in their entirety and the affected areas returned to their preexisting elevation.

3. Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark must be permanently stabilized at the earliest practicable date.

4. The construction or work authorized by this permit will be conducted in a manner so as to minimize any degradation of water quality and/or damage to aquatic life. Also, you will employ measures to prevent or control spills of fuels

or lubricants from entering the waterway.

5. Any heavy equipment working in wetlands must be placed on mats or other measures must be taken to minimize soil disturbance.

6. Failure to comply with the terms and conditions of this permit can result in enforcement actions against the permittee and/or contractor.

7. In granting an authorization pursuant to this permit, the Norfolk District has relied on the information and data provided by the permittee. If, subsequent to notification by the Corps that a project qualifies for this permit, such information and data prove to be materially false or materially incomplete, the authorization may be suspended or revoked, in whole or in part, and/or the Government may institute appropriate legal proceedings.

8. All filling will be done so as to minimize disturbance of the bottom or turbidity increases in the water, which tend to

degrade water quality and damage aquatic life.

General Conditions:

1. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Conditions 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

2. If you discover any previously unknown historic or archaeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible

for listing in the National Register of Historic Places.

3. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit.

4. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

5. The permittee understands and agrees that if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army of his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required upon due notice from the Corps of Engineers to remove, relocate, or alter the structural work or obstructions caused thereby without expense to the United States. No claim shall be made against the United States on account of any such removal or alternation.

Further Information:

1. Limits of this authorization:

a. This permit does not obviate the need to obtain other Federal, state or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

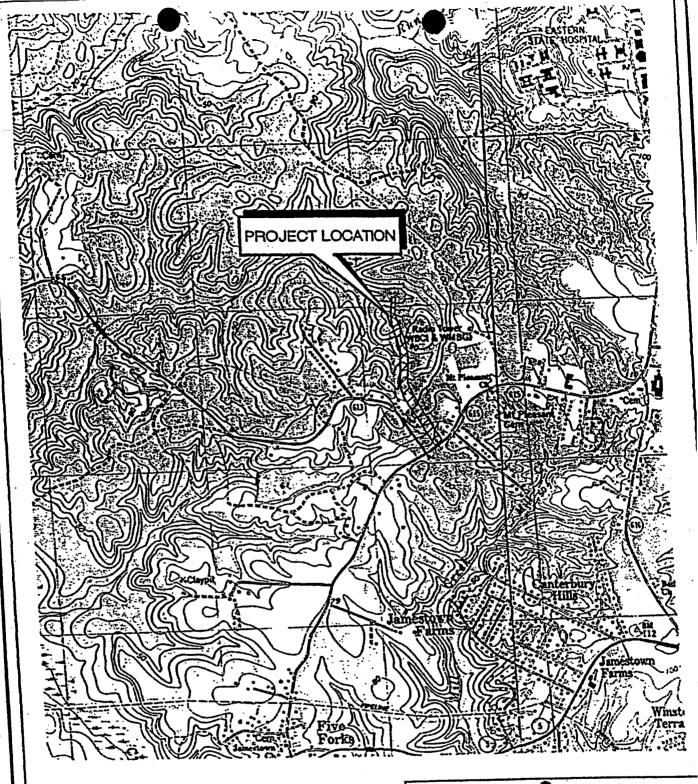
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal projects.

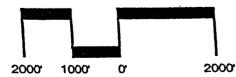
2. <u>Limits of Federal Liability</u>: In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(Transferee)







WILLIAMSBURG NVIRONMENTAL ROUP, INC.

SCALE: 1 INCH = 2000 FEET

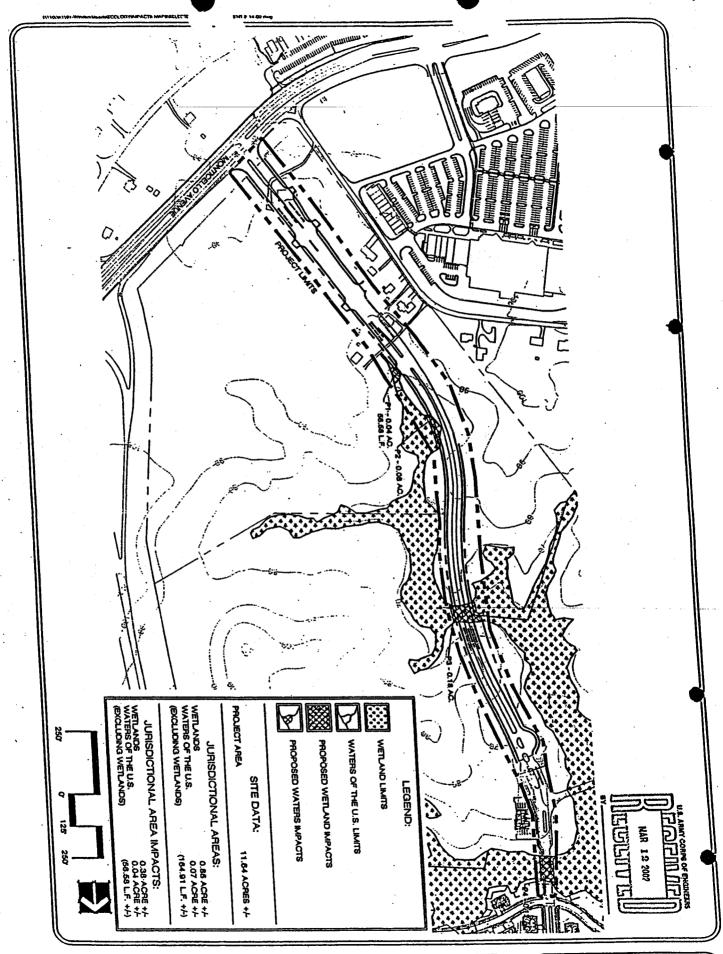
LATITUDE: 37"16'24" LONGITUDE: 76"45'18"

SOURCE: USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP, NORGE, VA QUADRANGLE, 1984. FIGURE 1-2

PROJECT LOCATION MA WINDSORMEADE WAY

JAMES CITY CO., VA

MARCH 2002



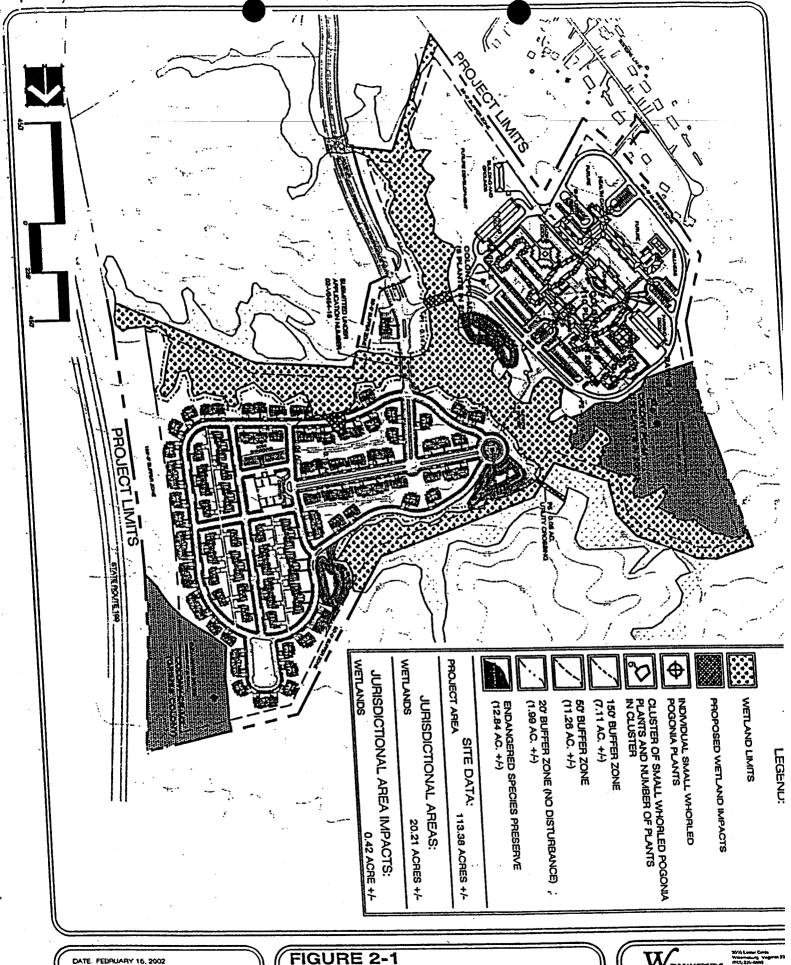
DATE: FEBRUARY 16, 2002

SOUTHSMOCK THE

WETLAND IMPACTS MAP WINDSORMEADE WAY



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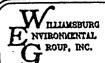
DATE. FEBRUARY 16, 2002
REVISED:
JOB NUMBER: 1161

COALE. 1 INCH ~ 450 FEET

EDURCE: DASE MAP PROVIDED BY ALG CONGULTING

ENONJEERS

WETLAND IMPACTS MAP
WINDSORMEADE OF WILLIAMSBURG



SCAL LAND CAND Windowsking Vingoria 22 (PCL) 221-0009 P2IS Beauting Statings 5 Sectorial Vingoria 2323 SCAL 201-2014 MYSY Manadas Prace 1 Shalley Vingoria 26160 (PCL) 664-1067

RECEIVED

DUPLICATE



SEP 3 0 2003

Wmsbg Environmental Grp

Fort Norfolk, 803 Front Street Norfolk, Virginia 23510-1096

DEPARTMENT OF THE ARMY PERMIT

Permittee:

Virginia United Methodist Homes

August 29, 2003

Mr. William Jeryl Fink

7113 Three Chopt Road Richmond, Virginia 23226

Permit No.:

02-V1074-18

Issuing Office:

Norfolk District, Corps of Engineers

Note: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below pursuant to:

() Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

() Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

Project Description: You plan to develop a master-planned continuing care retirement community, including community center, dining facility, wellness and health center, outdoor recreational areas, villas, and apartments on 113 acres within the Casey/New Town development area of James City County, Virginia. This proposal entails impacts to 0.643 acres of jurisdictional wetlands. These impacts are associated with 2 road crossings, villa development, a utility crossing, and grading associated with construction of 3 stormwater management facilities. The location and extent of the proposed project wetland impacts are depicted on the drawing entitled "Selected Alternative, Wetland Impacts Map, WindsorMeade of Williamsburg, James City County, Virginia" prepared by Williamsburg Environmental Group, dated February 15, 2002, and revised February 4, 2003, May 13, 2003, May 28, 2003, June 2, 2003, and July 30, 2003 (copy attached).

The road crossings will impact 0.443 acres of forested wetlands. One crossing is perpendicular to the wetland system and will impact 0.28 acres of wetlands. That crossing will be culverted to ensure hydrologic connectivity between the wetlands traversed by this road. The second road crossing is associated with adjoining lot fill and will not be culverted. It would impact 0.163 acre of wetlands. Lot development will entail fill of 0.04 acres of wetlands. Grading associated with construction of 3 stormwater management facilities would impact approximately 0.08 acres of wetlands. Another 0.08 acres of wetlands will be impacted by utility installation.

You have proposed to compensate for unavoidable project wetland impacts through a combination of offsite wetland restoration and creation and onsite preservation of forested wetlands and forested upland buffers, including endangered species habitat. Wetlands would be restored on agricultural lands in the headwaters of Glebe Creek, a tributary of the James River in Charles City County, Virginia. The location and extent of the proposed wetland restoration and creation for this and several related projects is depicted on the drawings entitled "Conceptual Offsite Mitigation Plan, New Town, WindsorMeade, and WindsorMeade Way, Charles City County, Virginia" prepared by Williamsburg Environmental Group, dated December 20, 2002, and revised January 22, 2003 and "Wetland Compensation Plan, Harrison Ruffin Property, Charles City County, Virginia" prepared by Williamsburg Environmental Group and dated April 21, 2003, and revised April 29, 2003, May 2, 2003, May 15, 2003, and July 29, 2003. Approximately 6.43 acres of wetlands and upland buffers would be preserved onsite.

2 Project Location: The project site is located at 4692 Old News Road on 113 acres in James City County, Virginia (PIN 3830100034). The work would occur in wetlands located above the headwaters of Powhatan Creek, a tributary of the James River. The project location map is attached.

Project Specific Conditions:

1. Prior to the commencement of any work authorized by this permit, you shall advise Mr. Steven Martin in writing (letter, e-mail, or FAX) at: Norfolk District, Army Corps of Engineers, Regulatory Branch, 803 Front Street, Norfolk, Virginia 23510, steven.m.martin@usace.army.mil, (757) 441-7678 (FAX) of the time the authorized activity will commence and the name and telephone number of all contractors or other persons performing the work. A copy of this permit and drawings must be provided to the contractor and made available to any regulatory representative during an inspection of the project site.

2. The time limit for completing the work authorized ends on September 1, 2008. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached. Should you be unable to complete the authorized activity in the time limit provided, you must submit your request for a time extension to this office for consideration at least one month before the permit expiration date.

3. Drawings depicting the culverted road crossing must be submitted for review and approval by this office prior to initiating work in waters of the U.S. (including wetlands) on this property. The culverts must be countersunk a minimum of 2 inches to ensure hydrologic connectivity between the wetlands traversed by this access road.

4. Any revised drawings for this development project must be submitted to this office prior to initiation of work in waters of the U.S. (including wetlands) on this property.

5. The residual wetland areas on this property (those areas that will not be impacted under this permit) that are located within 100 feet of the proposed clearing, excavation, and construction activities must be clearly marked in the field (flagged or fenced) prior to commencing work onsite to ensure that additional wetland areas are not inadvertently impacted.

6. Compensatory mitigation will be required for impacts to 0.643 acres of wetlands. The final mitigation plan must be consistent with Norfolk District's Regulatory Branch Guidance for Wetlands Compensation Permit Conditions and Performance Criteria dated December 1995 (copy enclosed).

7. All compensatory mitigation site work (land disturbance) associated with this project and depicted on the drawings entitled "Conceptual Offsite Mitigation Plan, New Town, WindsorMeade, and WindsorMeade Way, Charles City County, Virginia" prepared by Williamsburg Environmental Group, dated December 20, 2002, and revised January 22, 2003 and "Wetland Compensation Plan, Harrison Ruffin Property, Charles City County, Virginia" prepared by Williamsburg Environmental Group and dated April 21, 2003, and revised April 29, 2003, May 2, 2003, May 15, 2003, and July 29, 2003 must be completed not later than completion of the wetland fills authorized under this permit.

8. A drawing accurately depicting the location and extent of the onsite preservation areas that provide partial mitigation for this project must be submitted to this office within 30 days of initiation of wetland fills authorized under this permit.

9. The areas associated with compensatory mitigation (both offsite wetland restoration and onsite wetland and upland preservation areas) must be protected in perpetuity with a Corps-approved real estate instrument such as a restrictive covenant. This real estate instrument must be recorded over the mitigation sites within 30 days of initiation of wetland fills authorized under this permit. A sample instrument is attached for your consideration

10. A copy of the recorded real estate instrument(s) recorded over the mitigation areas (offsite wetland restoration and onsite wetland and upland preservation areas) must be forwarded to this office within 30 days of recordation.

11. Should the wetland performance criteria specified in the Corps-approved final compensatory mitigation plan not be met at any time during the monitoring period, you must provide the Corps with a proposal detailing proposed corrective actions and/or maintenance actions and an implementation schedule for said actions. You shall implement the necessary corrective measures following Corps review and approval/modification of these measures. The Corps may require additional remedial actions if these actions do not result in satisfaction of performance criteria during the next subsequent growing season.

12. This Corps permit does not authorize you to take a federally-listed species, in particular the small whorled pogonia (Isotria medeoloides). The U.S. Fish and Wildlife Service's Biological Opinion for this project (copy attached) contains a number of Conservation Recommendations that would minimize impacts to the small whorled pogonia

3 and its habitat. You have voluntarily agreed to implement these Conservation Recommendations and your authorization under this Corps permit is conditional upon your compliance with these measures. The remaining measures will be required to complete implementation of these Conservation Recommendations: a) Maintain the proposed buffer between the colony known as PC-M1 and the planned development as depicted on the drawing entitled "Selected Alternative, Wetland Impacts Map, WindsorMeade of Williamsburg, James City County, Virginia" prepared by Williamsburg Environmental Group, dated February 15, 2002, and revised February 4, 2003, May 13, 2003, May 28, 2003, June 2, 2003, and July 30, b) Develop a legally binding restrictive covenant (declaration of restrictions, conservation easement, etc.) to be recorded over the proposed endangered species conservation areas. This real estate instrument shall be in place (recorded) prior to initiation of work in wetlands, shall be perpetual, and subject to approval by the Corps and USFWS prior to recordation. This instrument should not preclude removal of vegetation and shall allow for selective cutting of vegetation if determined by the USFWS to be beneficial to the small whorled pogonia. The instrument shall allow the Corps and USFWS and/or designated representatives' access to the site for monitoring purposes.

Establish and fund a program to monitor the status of the preserved colonies (PC-M1 and CR-M2) and any potential threats for 15 years following recordation of the restrictive covenant recorded over the proposed endangered species conservation areas. The monitoring plan is subject to USFWS approval. If threats severely impact these colonies, you have agreed to work with the USFWS to develop and implement a proposal to control these threats.

d) Clearly mark the preservation areas onsite with weatherproof signs prior to any construction or landclearing. These signs shall be placed and maintained along the entire boundary of the proposed endangered species conservation areas. The signs should identify these areas as being ecologically sensitive to discourage incompatible activities. The size, language and layout of the signs should be submitted to and approved by the USFWS.

13. Enclosed is a "compliance certification" form, which must be signed and returned within 30 days of completion of the project, including any required mitigation. Your signature on this form certifies that you have completed the work in accordance with the permit terms and conditions.

Special Conditions:

1. No discharge of dredged or fill material may consist of unsuitable material (e.g.; trash, debris, car bodies, asphalt etc.) and material discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

2. Any temporary fills must be removed in their entirety and the affected areas returned to their preexisting elevation.

3. Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark must be permanently stabilized at the earliest practicable date.

4. The construction or work authorized by this permit will be conducted in a manner so as to minimize any degradation of water quality and/or damage to aquatic life. Also, you will employ measures to prevent or control spills of fuels

or lubricants from entering the waterway.

- 5. Any heavy equipment working in wetlands must be placed on mats or other measures must be taken to minimize soil disturbance.
- 6. Failure to comply with the terms and conditions of this permit can result in enforcement actions against the permittee and/or contractor.
- 7. In granting an authorization pursuant to this permit, the Norfolk District has relied on the information and data provided by the permittee. If, subsequent to notification by the Corps that a project qualifies for this permit, such information and data prove to be materially false or materially incomplete, the authorization may be suspended or revoked, in whole or in part, and/or the Government may institute appropriate legal proceedings.
- 8. All filling will be done so as to minimize disturbance of the bottom or turbidity increases in the water, which tend to degrade water quality and damage aquatic life.

General Conditions:

1. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Conditions 4 below. Should you

wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area. 2. If you discover any previously unknown historic or archaeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

3. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit.

4. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

5. The permittee understands and agrees that if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army of his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required upon due notice from the Corps of Engineers to remove, relocate, or alter the structural work or obstructions caused thereby without expense to the United States. No claim shall be made against the Untied States on account of any such removal or alternation.

Further Information:

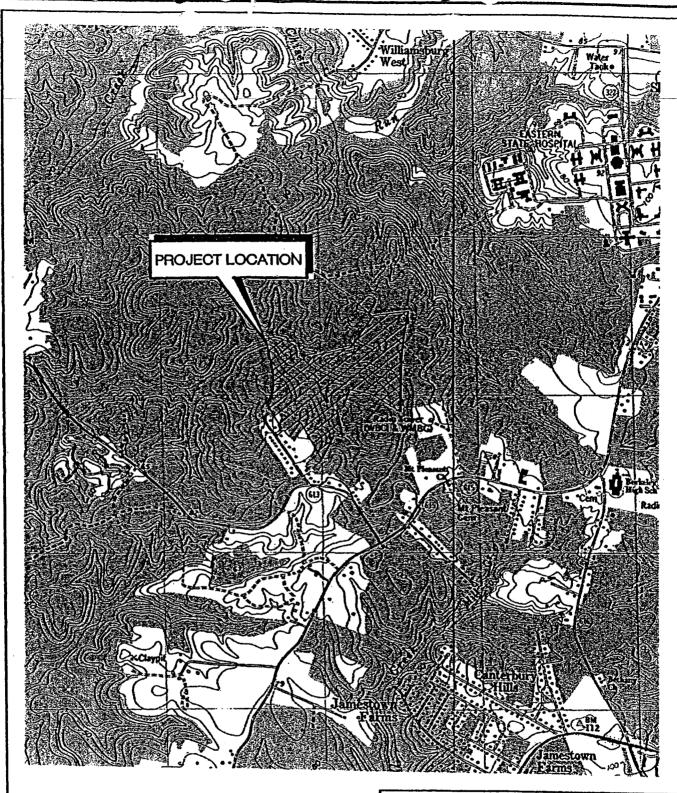
1. Limits of this authorization:

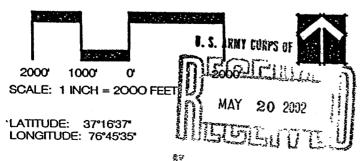
- a. This permit does not obviate the need to obtain other Federal, state or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal projects.
- 2. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 3. Reliance on Applicant's Data. The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 4. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time that the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 3 above).
 - c. Significant new information surfaces, which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

5. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as a permittee this permit.	e, indicates that you a	accept and agree to con	nply with the term	s and conditions of
(Permittee) President				
9/3/03 (Date)				
This permit becomes effective when below.	the Federal official,	designated to act for t	he Secretary of the	Army, has signed
		•		
Nicholas L. Konchela				
Micholas L. Konchuda				
Chief, Eastern Virginia Regulatory Section				•
9/25/03 (Date)				
When the structures or work author terms and conditions of this permit transfer of this permit and the assoc transferee sign and date below.	will continue to be b	inding on the new owr	er(s) of the proper	rty. To validate the
(Transferee)				
		•		
(Date)				
		×		





SOURCE: USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP, NORGE, VA QUADRANGLE, 1984. WILLIAMSBURG ENVIRONMENTAL GROUP, INC.

FIGURE 1
PROJECT LOCATION MAP
WINDSORMEADE

JAMES CITY CO., VA

MARCH 2002

DUPLICATE



RECEIVED

FEB 0 9 2004

Wmsbg Environmental Grp

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

W. Tayloe Murphy, Jr. Secretary of Natural Resources 5636 Southern Boulevard Virginia Beach, VA 23462 www.deq.state.va.us

Robert G. Burnley Director

Francis L. Daniel
Tidewater Regional Director
(757) 518-2000

February 6, 2004

Mr. Wm. Jeryl Fink Virginia United Methodist Homes c/o Mr. David M. Ramsey Williamsburg Environmental Group, Inc. 3000 Easter Circle Williamsburg, Virginia 23188

RE: Final VWP Individual Permit

Virginia Water Protection Individual Permit Number 02-1074 New Town Development - Windsormeade of Williamsburg

Dear Mr. Fink:

Pursuant to the Virginia Water Protection (VWP) Permit Program Regulation 9 VAC 25-210-10 and § 401 of the Clean Water Act Amendments of 1977, Public Law 95-217, the Department of Environmental Quality (DEQ) has enclosed the original VWP individual permit for the above-referenced project involving construction of a master-planned continuing care retirement community.

The provisions and conditions contained therein according to § 401(a)(1) of the Clean Water Act requires that:

"any applicant for a Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge in the navigable waters, shall provide the licensing or permitting agency a certification from the State in which the discharge originates or will originate, or, if appropriate, from the interstate water pollution control agency having jurisdiction over the navigable waters at the point where the discharge originates or will originate, that any such discharge will comply with the applicable provisions of sections 301, 302, 303, 306, and 307 of this Act."

This permit is valid for twelve years from the date of issuance. Re-issuance of the permit may be necessary if any portion of the authorized activities or any permit requirement have not been completed. The permit term, including any extensions, cannot exceed the maximum of 15 years.

Virginia United Methodist Homes Permit Transmittal Letter February 6, 2004 Page 2 of 2

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 calendar days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period. Refer to Part 2A of the Rules of the Supreme Court of Virginia for additional requirements governing appeals from administrative agencies.

Alternatively, any owner under §§62.1-44.16, 62.1-44.17 and 62.1-44.19 of the State Water Control Law aggrieved by any action of the board taken without a formal hearing, or by inaction of the board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the board. Said petition must meet the requirements set forth in §1.23(b) of the board's Procedural Rule Number 1 (9 VAC 25-230-10 et seq. of the Virginia Administrative Code). In cases involving actions of the board, such petition must be filed within 30 calendar days after notice of such action is mailed to such owner by certified mail.

If you have any questions, please feel free to contact Sheri Kattan at 757-518-2156 or sakattan@deq.state.va.us.

Sincerely,

Bert W. Parolari, Jr.

Virginia Water Protection Permit Manager

One Parol)

Enclosures: Permit Cover Page, Part I - Special Conditions, Part II - General Conditions

Steve Martin, U.S. Army Corps of Engineers

VWP permit file

cc:



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

W. Tayloe Murphy, Jr. Secretary of Natural Resources 5636 Southern Boulevard Virginia Beach, VA 23462 www.deq.state.va.us

Robert G. Burnley Director

Francis L. Daniel
Tidewater Regional Director
(757) 518-2000

VWP Individual Permit Number 02-1074 Effective Date: February 6, 2004 Expiration Date: February 5, 2016

VIRGINIA WATER PROTECTION PERMIT ISSUED PURSUANT TO THE STATE WATER CONTROL LAW AND SECTION 401 OF THE CLEAN WATER ACT

Based upon an examination of the information submitted by the owner and in compliance with § 401 of the Clean Water Act as amended (33 USC 1251 et seq.) and the State Water Control Law and regulations adopted pursuant thereto, the board has determined that there is a reasonable assurance that the activity authorized by this permit, if conducted in accordance with the conditions set forth herein, will protect instream beneficial uses and will not violate applicable water quality standards. The board finds that the effect of the impact, together with other existing or proposed impacts to wetlands, will not cause or contribute to a significant impairment to state waters or fish and wildlife resources.

Permittee: Virginia United Methodist Homes

Address: 71

7113 Three Chopt Road

Richmond, Virginia 23226 Attn: Mr. Wm. Jeryl Fink

Activity Location: Directly west of Route 199 and north of Monticello Avenue in James City County, Virginia.

Activity Description: The permittee proposes construction of a master-planned continuing care retirement community associated with the New Town Development master plan.

The permitted activity shall be in accordance with this Permit Cover Page, Part I - Special Conditions and Part II - General Conditions.

Director, Department of Environmental Quality

2/6/04

Date

VWP Individual Permit No. 02-1074 Part I - Special Conditions Page 1 of 11

A. Authorized Activities

- 1. This permit authorizes impacts via fill and excavation to 0.64 acres of nontidal forested wetlands for construction of a master-planned, continuing care retirement community as part of the New Town development master plan prepared by AES Consulting Engineers entitled "New Town Plan" dated December 2, 1997. These authorized impacts are indicated in the Joint Permit Application dated March 2002 and signed on January 9, 2002 and supplemental materials, revisions and clarifications received through October 30, 2003; and site plans prepared by Williamsburg Environmental Group, Inc. and entitled, "Selected Alternative Wetland Impacts Map, Windsormeade of Williamsburg, James City County, Virginia" dated February 15, 2002 and last revised on July 30, 2003.
- 2. The project activities, including any conditions and limitations, described in the Joint Permit Application and any supplemental materials submitted by the applicant, or authorized agent, shall be adhered to for the term of this permit.
- 3. The permittee shall notify the Department of Environmental Quality Tidewater Regional Office Virginia Water Protection Permit (DEQ TRO VWPP) Program of any additional impacts to surface waters, including wetlands or any change to the type of wetland impacts, associated with this project. Any additional impacts to surface waters, including wetlands, or any change to the type of wetland impacts, shall be subject to individual permit review or modification of this permit, and compensation may be required.
- 4. This permit is valid for 12 years from the date of issuance. Reissuance of the permit may be necessary if any portion of the authorized activities or any permit requirement has not been completed. The original permit term and extension cannot exceed the maximum of 15 years.

B. Standard Project Conditions

- 1. The activities authorized by this permit shall be executed in a manner to minimize any adverse impact on stream beneficial uses, as defined in § 62.1-10(b) of the Code.
- 2. No activity shall substantially disrupt the movement of aquatic life indigenous to the water body, including those species that normally migrate through the area, unless the primary purpose of the activity is to impound water. Culverts placed in streams shall be installed to maintain low flow conditions. No activity may cause more than minimal adverse effect on navigation. The activity shall not impede the passage of normal or expected high flows and the structure or discharge shall withstand expected high flows. Flows downstream of the project area shall be maintained to protect all uses.

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- 3. The permittee shall conduct activities in accordance with the time-of-year (TOY) restrictions as recommended by the Department of Game and Inland Fisheries or as required by the Virginia Marine Resources Commission. The permittee shall maintain a copy of such TOY restriction or notification that no restriction is necessary, for the duration of the construction phase of the project.
- 4. All excavation, dredging, and/or filling in surface waters shall be accomplished in a manner that minimizes stream bottom disturbances and turbidity increases.
- 5. All non-impacted surface waters and required upland buffers within the project or right-of-way limits that are within fifty feet of any project activities shall be clearly flagged or demarcated for the life of the construction activity within that area. The permittee shall notify all contractors and subcontractors that these marked areas are areas where no activities are to occur.
- 6. Virginia Water Quality Standards shall not be violated in any surface water as a result of the project activities.
- 7. Temporary disturbances to wetlands during construction shall be avoided and minimized to the maximum extent practicable. All temporarily disturbed wetland areas shall be stabilized within 30 days of completing work in each respective impact area, restored to pre-construction conditions, and planted or seeded with appropriate wetland vegetation according to cover type (emergent, scrub/shrub, or forested). The permittee shall take all appropriate measures to promote revegetation of temporarily disturbed wetland areas with wetland vegetation by the second year post-disturbance. All temporary fills shall be removed in their entirety and the affected area returned to pre-existing contours.
- 8. Heavy equipment in temporarily impacted surface waters shall be placed on mats, geotextile fabric, or other suitable measures to minimize soil disturbance to the maximum extent practicable. Mats shall be removed as soon as the work is complete.
- 9. All materials (including fill, construction debris, and excavated and woody materials) temporarily stockpiled in wetlands shall be placed on mats or geotextile fabric, immediately stabilized to prevent entry into surface waters, managed such that leachate does not enter surface waters, and entirely removed within 30 days following completion of that construction activity. Disturbed areas shall be returned to original contours, stabilized within 30 days following removal of the stockpile, and restored to the original vegetated state.
- 10. Erosion and sedimentation controls shall be designed in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992. These controls shall be placed prior to clearing and grading and maintained in good working order to minimize impacts to surface waters. These controls shall remain in place until the area stabilizes.

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- 11. Any exposed slopes or streambanks shall be stabilized immediately upon completion of work in each impact area in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992.
- 12. The permittee shall employ measures to prevent spills of fuels, lubricants, or other pollutants into surface waters.
- 13. All construction, construction access (for example, cofferdams, sheetpiling, and causeways) and demolition activities associated with this project shall be accomplished in a manner that minimizes construction or waste materials from entering surface waters to the maximum extent practicable, unless authorized by this permit.
- 14. All fill material shall be clean and free of contaminants in toxic concentrations or amounts in accordance with all applicable laws and regulations.
- 15. Wet or uncured concrete shall be prohibited from entry into surface waters.
- 16. No machinery may enter surface waters, unless authorized by this permit.
- 17. In issuing this permit, DEQ has not taken into consideration the structural stability of any proposed structure.

C. Construction Monitoring

1. A photo station shall be established at each impact site authorized by this permit. The photograph orientation at these stations shall remain constant during all monitoring events. The photographs shall document site activities and conditions, which should include installation and maintenance of erosion and sediment controls, flagged non-impact surface waters and required upland buffers, filling and excavation activities, pipe/culvert installation, and site stabilization activities. Photographs shall be taken prior to site activities, at the end of each month, and within one week of construction completion. Monthly photographs at each impact site shall not be required until construction activities are initiated at that site. Monthly photographs at each impact site shall not be required following completion of construction at that impact site and site stabilization. Each photograph shall be labeled to include the following information: permit number, impact area and photo station number, date and time of the photograph, name of the person taking the photograph, photograph orientation, and photograph subject description.

D. Required Notifications and Submittals

1. All written communications required by this permit shall be submitted to the DEQ TRO VWPP Program. Please include the permit number on all correspondence.

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- 2. All reports required by this permit and other information requested by the DEQ TRO VWPP Program shall be signed by the applicant or a person acting in the applicant's behalf, with the authority to bind the applicant. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above; and
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, superintendent, or position of equivalent responsibility. A duly authorized representative may thus be either a named individual or any individual occupying a named position.
 - c. If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization shall be submitted to DEQ prior to or together with any separate information, or applications to be signed by an authorized representative.
- 3. All submittals required by this permit shall contain the following signed certification statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

- 4. Any fish kills or spills of fuels or oils shall be reported immediately upon discovery. If spills or fish kills occur between the hours of 8:15 AM to 5:00 PM Monday through Friday, DEQ TRO shall be notified at 757-518-2077; otherwise, the Department of Emergency Services shall be notified at 1-800-468-8892.
- 5. Violations of Virginia Water Quality Standards shall be reported within 24 hours to DEQ TRO at 757-518-2077.
- 6. DEQ shall be notified in writing when potential environmentally threatening conditions are encountered which require debris removal or involve potentially toxic substances. Measures to remove the obstruction, material, or toxic substance or to change the location of any structure are prohibited until approved by DEQ.

Construction

7. The DEQ TRO VWPP Program shall be notified in writing at least ten days prior to the start of activities authorized by this permit so that inspections of the project can be

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planned, if deemed necessary. The notification shall include a projected schedule for completing work at the permitted impact area.

- 8. Construction monitoring reports shall be submitted to the DEQ TRO VWPP Program within 30 days of each monitoring event. The reports shall include, as appropriate, the following:
 - a. A written narrative stating whether work was performed, a description of the work performed at each impact area, when the work was initiated, and expected date of completion; a summary of activities conducted to comply with the permit conditions; a summary of permit non-compliance events or problems encountered, subsequent notifications, and corrective actions; a summary of anticipated work to be completed during the next reporting period; and an estimated date of project completion.
 - b. A labeled site map depicting all impact areas and photo stations.
 - c. Properly labeled photographs as described in Part I Section C.
- 9. Written notification and photographs shall be submitted within 30 days of restoration demonstrating that all temporarily disturbed wetland areas have been restored in compliance with the permit conditions.
- 10. The DEQ TRO VWPP Program shall be notified in writing within 30 days following the completion of activities authorized by this permit.

Compensation

11. The permittee shall submit a final wetland compensation plan, which includes (at a minimum): the goals and objectives of the plan, in terms of replacement of functions and values and expressed in acres of each wetland type; discussion of buffers; discussion of structures and features necessary for the success of the site; the schedule for compensation site construction; a location map, including latitude and longitude (to the nearest second) at the center of the site; a hydrologic analysis, including a water budget (non-tidal sites only) based on expected monthly inputs and outputs which will project water level elevations for a typical year, a dry year and a wet year; groundwater elevation data, if available, or the proposed location of groundwater monitoring wells to collect these data; wetland delineation confirmation and data sheets and maps for existing wetland areas on the proposed site(s); a grading plan; a planting scheme and schedule, including suggested plant species, zonation and acreage of each vegetation type proposed; a soil preparation and amendment plan addressing both topsoil and subsoil conditions; design of water control structures; site access plan; a monitoring plan, including proposed success criteria, monitoring goals, and the location of photo stations, monitoring wells, soil sampling points (as appropriate), and vegetation sampling points, and reference wetlands (if available); an abatement and control plan for undesirable plant species, including, at a minimum, the species listed on DCR's Invasive Alien Plant Species of Virginia list, and including procedures to notify DEQ of any undesirable plant

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species occurrences, methods of removal, and successful control; and an erosion and sedimentation control plan.

- 12. The final wetland compensation plan shall include protection of surface waters in perpetuity. These areas shall be surveyed or platted within 120 days of final plan approval, and the survey or plat shall be recorded in accordance with the requirements of this section. The restrictions, protections, or preservations, or similar instrument shall state that no activity will be performed on the property in any area designated as a compensation area or non-impacted surface water, with the exception of maintenance or corrective action measures authorized by DEQ. Unless specifically authorized by DEQ through the issuance of a VWP individual permit, modification of this permit, or waiver thereof, this restriction applies to ditching, land clearing or the filling, dumping, excavating, draining, flooding, or impounding. Such instrument shall contain the specific phrase "ditching, land clearing or discharge of dredge or fill material" in the limitations placed on the use of these areas. The protective instrument shall be recorded in the chain of title to the property. Proof of recordation shall be submitted within 60 days of survey or plat approval. This requirement is to preserve the integrity of compensation areas and to ensure that additional impacts to surface waters do not occur.
- 13. A projected schedule of activities and projected construction completion date (including planting) for the compensation site shall be submitted to the DEQ TRO VWPP Program within 15 days of permit issuance.
- 14. All wetland compensation monitoring reports shall be submitted by November 30th of the monitoring year. The reports shall include, at a minimum, the following:
 - a. A general description of the site including a site location map identifying photo stations, vegetative and soil monitoring stations, monitoring wells, and wetland zones.
 - b. Summary of activities completed during the monitoring year.
 - c. Description of monitoring methods.
 - d. An analysis of all hydrology information, including monitoring well data, precipitation data, and gauging data from streams or other open water areas set forth in the final compensation plan;
 - e. Evaluation of hydric soils or soils under hydric conditions;
 - f. An analysis of all vegetative community information, including woody and herbaceous species, both planted and volunteers, set forth in the final compensation plan;
 - g. Properly labeled photographs as described in Part I Section C.
 - h. Discussion of wildlife or signs of wildlife observed at the compensation site;
 - i. Comparison of site conditions from the previous monitoring year and/or reference site.
 - j. Discussion of corrective measures or maintenance activities to control undesirable species, to repair any damaged water control device, or to replace any damaged planted vegetation.

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15. Documentation of the total wetland acreage by wetland type based on the surveyed boundary shall be submitted within 30 days of the final monitoring event.

E. Road Crossings

- 1. Access roads shall be constructed to minimize the adverse effects on surface waters to the maximum extent practicable and to follow as near as possible pre-construction contours and elevations. Access roads constructed above pre-construction contours and elevations in surface waters shall be properly bridged or culverted to maintain surface flows.
- 2. At crossings of perennial streams, pipes and culverts shall be countersunk a minimum of six inches to provide for the re-establishment of a natural stream bottom and to maintain a low flow channel. For multiple-celled culverts, only those cells situated within the limits of ordinary high water shall be countersunk. Countersinking is not required for existing pipes or culverts that are being maintained or extended.
- 3. Installation of pipes and road crossings shall occur in the dry via the implementation of cofferdams, sheetpiling, stream diversions or other similar structures.
- 4. All surface waters temporarily affected by a road crossing shall be restored to their original elevations immediately following the construction of that particular crossing.
- 5. If stream channelization or relocation is required, all work in surface waters shall be done in the dry, unless authorized by this permit, and all flows shall be diverted around the channelization or relocation area until the new channel is stabilized. This work shall be accomplished by leaving a plug at the inlet and outlet ends of the new channel during excavation. Once the new channel has been stabilized, flow shall be routed into the new channel by first removing the downstream plug and then the upstream plug. The new stream channel shall be constructed following the typical sections submitted with the application. A low flow channel shall be constructed within the channelized or relocated area. The centerline of the low flow channel shall meander, to the extent possible, to mimic natural stream morphology. The rerouted stream flow shall be fully established before construction activities in the old streambed can begin.
- 6. Stream bottom elevations at road crossings shall be measured at the inlet and outlet of the proposed structure and recorded prior to construction and within one week after the completion of construction to ensure that the design elevations were met.

F. Stormwater Management Facilities

1. Stormwater management facilities shall be designed in accordance with best management practices and watershed protection techniques, such as vegetated buffers, siting considerations to minimize adverse effects to aquatic resources, bioengineering methods incorporated into the facility design to benefit water quality and minimize adverse effects to aquatic resources (as per the Dept. of Conservation and Recreation's Stormwater

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Management Handbook, Volumes 1 and 2, First Edition, 1999), that provide for long-term aquatic resources protection and enhancement, to the maximum extent practicable.

- 2. Final design calculations for the site stormwater management facilities shall be submitted to the DEQ prior to commencement of construction of the proposed site development. This submittal shall include confirmation from the local government that the facilities comply with local water quality and quantity treatment requirements as adopted from the Department of Conservation and Recreation.
- 3. The outfall and overflow structures shall be constructed and maintained to prevent downstream sediment deposition, erosion, or scour that may be associated with normal flow and any expected storm flows. Construction shall include the use of an appropriately sized riprap outlet protection apron at the outfall site.
- 4. Maintenance excavation shall follow the approved maintenance plan authorized by this permit, and shall not exceed the original contours of the facility as constructed and approved by DEQ. A complete stormwater facility management plan shall be submitted to the DEQ for each stormwater management facility authorized by the permit. Maintenance excavation shall follow the approved maintenance plan, and shall not exceed the original contours of the facility as constructed.
- 5. Compensation for unavoidable wetland impacts shall not be allowed within maintenance areas of stormwater management facilities.
- 6. Maintenance within stormwater management facilities will not require compensation provided that the maintenance is accomplished in designated maintenance areas as indicated in the facility maintenance plan.
- 7. Draining of a pond shall be performed by a method that prevents downstream sediment deposition, erosion, or scour.

G. Compensation On Site and Off Site

General Compensation Requirements

- 1. The final compensation plan shall be approved by the DEQ TRO VWPP Program prior to any construction activity in permitted impact areas. The final compensation plan as approved by DEQ shall be an enforceable requirement of this permit. Any deviation from the approved plan must be submitted to and approved in advance of implementation by DEQ.
- 2. Compensation site construction (i.e. land disturbance) must be complete by November 30, 2003.
- 3. Planting of woody plants shall occur when vegetation is normally dormant unless otherwise approved in the final compensation plan.

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- 4. Rooted seedlings or cuttings shall originate from a local nursery or be adapted to local conditions. Vegetation shall be native species common to the area, shall be suitable for growth in local wetland conditions, and shall be from areas within approximately 200 miles from the project site.
- 5. Undesirable plant species shall be identified and controlled as described in the abatement and control plan for undesirable plant species, such that they are not dominant species or do not change the desired community structure. The abatement and control plan shall include procedures to notify the DEQ TRO VWPP Program of any undesirable plant species occurrences, methods of removal, and successful control.
- 6. Herbicides or algaecides shall not be used in or immediately adjacent to the compensation site or sites without prior authorization from the DEQ TRO VWPP Program. All vegetation removal shall be done by manual means, unless authorized by the DEQ TRO VWPP Program in advance.
- 7. For compensation sites involving land disturbance, a site stabilization plan shall be submitted to the DEQ TRO VWPP Program at least 60 days prior to compensatory mitigation construction activities.
- 8. Point sources of stormwater runoff shall be prohibited from entering any compensation site prior to treatment by appropriate best management practices. Appropriate best management practices may include sediment traps, grassed waterways, vegetated filter strips, debris screens, oil and grease separators, and forebays.
- 9. If the compensation area fails to be established as per the specified performance criteria, the reasons for this failure shall be determined and a corrective action plan, schedule, and monitoring plan shall be submitted to the DEQ TRO VWPP Program for approval prior to or with the next required monitoring report. All problems shall be corrected by the permittee. Shall significant changes be necessary to ensure success, the monitoring plan shall begin again, with monitoring year one being the year changes are complete.

Wetland Compensation

10. The permittee shall compensate for the impacts to 0.64 acres of nontidal forested wetlands through the off-site restoration of 0.64 acres of nontidal forested wetlands and the on-site preservation of a combination of forested wetlands, and uplands containing the state endangered small whorled pogonia, at a 10:1 ratio, and upland buffer at a 15:1 ratio as proposed in the mitigation plan prepared by Williamsburg Environmental Group, Inc. entitled "Wetland Compensation Plan, Harrison Ruffin Property, Charles City County", dated April 21, 2003 and last revised on July 29, 2003. The on-site preservation areas are located within the proposed Windsormeade of Williamsburg development as depicted on the drawing prepared by Williamsburg Environmental Group, Inc. entitled "Selected Alternative Wetland Impacts Map, Windsormeade of

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Williamsburg, James City County, Virginia" dated February 15, 2002 and last revised on July 30, 2003. The compensation sites shall be preserved in perpetuity.

- 11. Wetland hydrology shall be considered established if depths to the seasonal high water table are equal to or less than 12 inches below ground surface for at least 12.5% of the growing season, for 28 consecutive days, as defined in the United States Department of Agriculture soil survey for the locality of the compensation site in all monitoring years under normal rainfall conditions, as defined in the water budget of the final compensation plan.
- 12. The presence of hydric soils or soils under hydric conditions shall be evaluated in accordance with the final compensation plan.
- 13. The wetland plant community shall be considered established according to the performance criteria specified in the final compensation plan and approved by the DEQ TRO VWPP Program. Species composition shall reflect the desired plant community types stated in the final compensation plan by the end of the first growing season and shall be maintained through the last monitoring year. Species composition shall consist of greater than 50% facultative (FAC) or wetter (FACW or OBL) vegetation, as expressed by plant stem density or aerial cover.
- 14. A post-grading survey, including spot elevations, of the site shall be required and shall be conducted by a licensed land surveyor or a professional engineer. Post-grading elevations for the compensation site shall be sufficient to ensure that wetland hydrology will be achieved on the site to support the goals and objectives of the compensation plan.
- 15. Compensation site monitoring for hydrology, soils, and hydrophytic vegetation shall begin at the first complete growing season (monitoring year one) following compensation site construction. Monitoring shall be required for monitoring years 1, 2, 4, 7, and 10. If all success criteria have not been met in the final monitoring year, then monitoring shall be required for each consecutive year until two annual sequential reports indicate that all criteria have been successfully satisfied (i.e., that corrective actions were successful).
- 16. Photographs shall be taken at the compensation site from the permanent photo stations identified in the final compensation plan. At each station, four photographs shall be taken in the direction of the major compass points. These photographs shall be taken after the initial planting and in August or September every monitoring year. Photographs shall be appropriately labeled as described in Part I Section C.
- 17. The establishment of wetland hydrology shall be measured during the growing season, with the location and number of monitoring wells, and frequency of monitoring for each site, in accordance with the final compensation plan. All hydrology monitoring well data shall be accompanied by precipitation data, including rainfall amounts, either from on site, or from the closest weather station. Once the wetland hydrology success criteria have been satisfied for a particular monitoring year, monitoring may be discontinued for

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the remainder of that monitoring year following DEQ TRO VWPP Program approval.

- 18. The establishment of wetland vegetation shall be in accordance with the final compensation plan. Monitoring shall take place in August or September during the growing season of each monitoring year, unless otherwise authorized in the monitoring plan.
- 19. During each monitoring event, the permittee shall document all wildlife or signs of wildlife observed at the site.
- 20. The wetland boundary for the compensation site shall be based on the results of the hydrology, soils, and vegetation monitoring data. Calculation of total wetland acreage by wetland type shall be based on that boundary at the end of the monitoring cycle and shall be shown on the site plan. Data shall be submitted within 30 days of the final monitoring event.

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A. Duty to Comply

The permittee shall comply with all conditions of the VWP permit. Nothing in the VWP permit regulations shall be construed to relieve the permittee of the duty to comply with all applicable federal and state statutes, regulations and prohibitions. Any VWP permit violation is a violation of the law, and is grounds for enforcement action, VWP permit termination, revocation, modification, or denial of an application for a VWP permit extension or reissuance.

B. Duty to Cease or Confine Activity

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the activity for which a VWP permit has been granted in order to maintain compliance with the conditions of the VWP permit.

C. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any impacts in violation of the permit which may have a reasonable likelihood of adversely affecting human health or the environment.

D. VWP Permit Action

- 1. A VWP permit may be modified, revoked and reissued, or terminated as set forth in 9 VAC 25-210 et seq.
- 2. If a permittee files a request for VWP permit modification, revocation, or termination, or files a notification of planned changes, or anticipated noncompliance, the VWP permit terms and conditions shall remain effective until the request is acted upon by the board. This provision shall not be used to extend the expiration date of the effective VWP permit. If the permittee wishes to continue an activity regulated by the VWP permit after the expiration date of the VWP permit, the permittee must apply for and obtain a new VWP permit or comply with the provisions of 9 VAC 25-210-185 (VWP Permit Extension).
- 3. VWP permits may be modified, revoked and reissued or terminated upon the request of the permittee or other person at the board's discretion, or upon board initiative to reflect the requirements of any changes in the statutes or regulations, or as a result of VWP permit noncompliance as indicated in the Duty to Comply subsection above, or for other reasons listed in 9 VAC 25-210-180 (Rules for Modification, Revocation and Reissuance, and Termination of VWP permits).

E. Inspection and Entry

Upon presentation of credentials, any duly authorized agent of the board may, at reasonable times and under reasonable circumstances:

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- 1. Enter upon any permittee's property, public or private, and have access to, inspect and copy any records that must be kept as part of the VWP permit conditions;
- 2. Inspect any facilities, operations or practices (including monitoring and control equipment) regulated or required under the VWP permit, and
- 3. Sample or monitor any substance, parameter or activity for the purpose of ensuring compliance with the conditions of the VWP permit or as otherwise authorized by law.

F. Duty to Provide Information

- 1. The permittee shall furnish to the board any information which the board may request to determine whether cause exists for modifying, revoking, reissuing or terminating the VWP permit, or to determine compliance with the VWP permit. The permittee shall also furnish to the board, upon request, copies of records required to be kept by the permittee.
- 2. Plans, specifications, maps, conceptual reports and other relevant information shall be submitted as required by the board prior to commencing construction.

G. Monitoring and Records Requirements

- 1. Monitoring of parameters, other than pollutants, shall be conducted according to approved analytical methods as specified in the VWP permit. Analysis of pollutants will be conducted according to 40 CFR Part 136 (2000), Guidelines Establishing Test Procedures for the Analysis of Pollutants.
- 2. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- 3. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart or electronic recordings for continuous monitoring instrumentation, copies of all reports required by the VWP permit, and records of all data used to complete the application for the VWP permit, for a period of at least three years from the date of the expiration of a granted VWP permit. This period may be extended by request of the board at any time.
- 4. Records of monitoring information shall include:
 - a. The date, exact place and time of sampling or measurements;
 - b. The name of the individuals who performed the sampling or measurements;
 - c. The date and time the analyses were performed;
 - d. The name of the individuals who performed the analyses;

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- e. The analytical techniques or methods supporting the information such as observations, readings, calculations and bench data used;
- f. The results of such analyses; and
- g. Chain of custody documentation.

H. Transferability

This VWP permit may be transferred to a new permittee only by modification to reflect the transfer, by revoking and reissuing the permit, or by automatic transfer. Automatic transfer to a new permittee shall occur if:

- 1. The current permittee notifies the board within 30 days of the proposed transfer of the title to the facility or property;
- 2. The notice to the board includes a written agreement between the existing and proposed permittee containing a specific date of transfer of VWP permit responsibility, coverage and liability to the new permittee, or that the existing permittee will retain such responsibility, coverage, or liability, including liability for compliance with the requirements of any enforcement activities related to the permitted activity; and
- 3. The board does not within the 30-day time period notify the existing permittee and the new permittee of its intent to modify or revoke and reissue the VWP permit.

I. Property rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize injury to private property or any invasion of personal rights or any infringement of federal, state or local law or regulation.

J. Reopener

Each VWP permit shall have a condition allowing the reopening of the VWP permit for the purpose of modifying the conditions of the VWP permit to meet new regulatory standards duly adopted by the board. Cause for reopening VWP permits includes, but is not limited to when the circumstances on which the previous VWP permit was based have materially and substantially changed, or special studies conducted by the board or the permittee show material and substantial change, since the time the VWP permit was issued and thereby constitute cause for VWP permit modification or revocation and reissuance.

K. Compliance with State and Federal Law

Compliance with this VWP permit constitutes compliance with the VWP permit requirements of the State Water Control Law. Nothing in this VWP permit shall be construed to preclude the institution of any legal action under or relieve the permittee from

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any responsibilities, liabilities, or other penalties established pursuant to any other state law or regulation or under the authority preserved by § 510 of the Clean Water Act.

L. Severability

The provisions of this VWP permit are severable.

M. Permit Modification

A VWP permit may be modified, but not revoked and reissued except when the permittee agrees or requests, when any of the following developments occur:

- 1. When additions or alterations have been made to the affected facility or activity which require the application of VWP permit conditions that differ from those of the existing VWP permit or are absent from it;
- 2. When new information becomes available about the operation or activity covered by the VWP permit which was not available at VWP permit issuance and would have justified the application of different VWP permit conditions at the time of VWP permit issuance;
- 3. When a change is made in the promulgated standards or regulations on which the VWP permit was based;
- 4. When it becomes necessary to change final dates in schedules due to circumstances over which the permittee has little or no control such as acts of God, materials shortages, etc. However, in no case may a compliance schedule be modified to extend beyond any applicable statutory deadline of the Act;
- 5. When changes occur which are subject to "reopener clauses" in the VWP permit; or
- 6. When the board determines that minimum instream flow levels resulting from the permittee's withdrawal of water are detrimental to the instream beneficial use and the withdrawal of water should be subject to further net limitations or when an area is declared a Surface Water Management Area pursuant to §§ 62.1-242 through 62.1-253 of the Code of Virginia, during the term of the VWP permit.

N. Permit Termination

After notice and opportunity for a formal hearing pursuant to Procedural Rule No. 1 (9 VAC 25-230-100) a VWP permit can be terminated for cause. Causes for termination are as follows:

- 1. Noncompliance by the permittee with any condition of the VWP permit;
- 2. The permittee's failure in the application or during the VWP permit issuance process to disclose fully all relevant facts or the permittee's misrepresentation of any relevant facts at any time;

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- 3. The permittee's violation of a special or judicial order;
- 4. A determination by the board that the permitted activity endangers human health or the environment and can be regulated to acceptable levels by VWP permit modification or termination;
- 5. A change in any condition that requires either a temporary or permanent reduction or elimination of any activity controlled by the VWP permit; and
- 6. A determination that the permitted activity has ceased and that the compensatory mitigation for unavoidable adverse impacts has been successfully completed.

O. Civil and Criminal Liability

Nothing in this VWP permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this VWP permit shall be construed to preclude the institution of legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under § 311 of the Clean Water Act or §§ 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Unauthorized Discharge of Pollutants

Except in compliance with this VWP permit, it shall be unlawful for the permittee to:

- 1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances;
- 2. Excavate in a wetland;
- 3. Otherwise alter the physical, chemical, or biological properties of state waters and make them detrimental to the public health, to animal or aquatic life, to the uses of such waters for domestic or industrial consumption, for recreation, or for other uses.
- 4. On or after October 1, 2001 conduct the following activities in a wetland:
 - a. New activities to cause draining that significantly alters or degrades existing wetland acreage or functions;
 - b. Filling or dumping;
 - c. Permanent flooding or impounding;

VWP Individual Permit No. 02-1074 Part II - General Conditions Page 6 of 6

d. New activities that cause significant alteration or degradation of existing wetland acreage or functions.

R. Permit Extension

1. Any permittee with an effective VWP permit for an activity that is expected to continue after the expiration date of the VWP permit, without any change in the activity authorized by the VWP permit, shall submit written notification request if an extension. The permittee must file the request prior to the expiration date of the VWP permit. Under no circumstances will the extension be granted for more than 15 years beyond the original effective date of the VWP permit. If the request for extension if denied, the VWP permit will still expire on its original date and, therefore, care should be taken to allow for sufficient time for the board to evaluate the extension request and to process a full VWP permit modification, if required.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

W. Tayloe Murphy, Jr. Secretary of Natural Resources 5636 Southern Boulevard Virginia Beach, VA 23462 www.deq.state.va.us

Robert G. Burnley Director

Francis L. Daniel
Tidewater Regional Director
(757) 518-2000

September 25, 2003

Mr. Wm. Jeryl Fink Virginia United Methodist Homes c/o Ms. Shelley Carlisle Williamsburg Environmental Group, Inc. 3000 Easter Circle Williamsburg, Virginia 23188

RE: Final VWP Individual Permit

Virginia Water Protection Individual Permit Number 02-0454

New Town Development - Windsormeade Way

Dear Mr. Fink:

Pursuant to the Virginia Water Protection (VWP) Permit Program Regulation 9 VAC 25-210-10 and § 401 of the Clean Water Act Amendments of 1977, Public Law 95-217, the Department of Environmental Quality (DEQ) has enclosed the original VWP individual permit for the above-referenced project involving fill for a main entrance road into the New Town master planned development.

The provisions and conditions contained therein according to § 401(a)(1) of the Clean Water Act requires that:

"any applicant for a Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge in the navigable waters, shall provide the licensing or permitting agency a certification from the State in which the discharge originates or will originate, or, if appropriate, from the interstate water pollution control agency having jurisdiction over the navigable waters at the point where the discharge originates or will originate, that any such discharge will comply with the applicable provisions of sections 301, 302, 303, 306, and 307 of this Act."

This permit is valid for twelve years from the date of issuance. Re-issuance of the permit may be necessary if any portion of the authorized activities or any permit requirement have not been completed. The permit term, including any extensions, cannot exceed the maximum of 15 years.

Virginia United Methodist Homes Permit Transmittal Letter September 25, 2003 Page 2 of 2

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 calendar days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period. Refer to Part 2A of the Rules of the Supreme Court of Virginia for additional requirements governing appeals from administrative agencies.

Alternatively, any owner under §§62.1-44.16, 62.1-44.17 and 62.1-44.19 of the State Water Control Law aggrieved by any action of the board taken without a formal hearing, or by inaction of the board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the board. Said petition must meet the requirements set forth in §1.23(b) of the board's Procedural Rule Number 1 (9 VAC 25-230-10 et seq. of the Virginia Administrative Code). In cases involving actions of the board, such petition must be filed within 30 calendar days after notice of such action is mailed to such owner by certified mail.

If you have any questions, please feel free to contact Sheri Kattan at 757-518-2156 or sakattan@deq.state.va.us.

Sincerely,

Harold J. Winer

Regional Deputy Director

Enclosures: Permit Cover Page, Part I - Special Conditions, Part II - General Conditions

cc: Steve Martin, U.S. Army Corps of Engineers

VWP permit file



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

W. Tayloe Murphy, Jr. Secretary of Natural Resources 5636 Southern Boulevard Virginia Beach, VA 23462 www.deq.state.va.us

Robert G. Burnley
Director

Francis L. Daniel
Tidewater Regional Director
(757) 518-2000

VWP Individual Permit Number 02-0454 Effective Date: September 25, 2003 Expiration Date: September 24, 2015

VIRGINIA WATER PROTECTION PERMIT ISSUED PURSUANT TO THE STATE WATER CONTROL LAW AND SECTION 401 OF THE CLEAN WATER ACT

Based upon an examination of the information submitted by the owner and in compliance with § 401 of the Clean Water Act as amended (33 USC 1251 et seq.) and the State Water Control Law and regulations adopted pursuant thereto, the board has determined that there is a reasonable assurance that the activity authorized by this permit, if conducted in accordance with the conditions set forth herein, will protect instream beneficial uses and will not violate applicable water quality standards. The board finds that the effect of the impact, together with other existing or proposed impacts to wetlands, will not cause or contribute to a significant impairment to state waters or fish and wildlife resources.

Permittee: Virginia United Methodist Homes

Address: 7113 Three Chopt Road

Richmond, Virginia 23226 Attn: Mr. Wm. Jeryl Fink

Activity Location: Along the north side of Monticello Avenue approximately 1000 feet west of Route 199 in James City County, Virginia.

Activity Description: The permittee proposes construction of an entrance road to the proposed Windsormeade of Williamsburg development and to other developments associated with the New Town Development master plan.

The permitted activity shall be in accordance with this Permit Cover Page, Part I - Special Conditions and Part II - General Conditions.

(for)

Director, Department of Environmental Quality
9/2-5/63

Date

VWP Individual Permit No. 02	-0454
Part I - Special Conditions	
Page 1 of 10	

A. Authorized Activities

- 1. This permit authorizes impacts via fill to 0.82 acres of nontidal forested wetlands and 0.07 acres (154 linear feet) of intermittent stream for construction of an entrance road to the Windsormeade of Williamsburg development and other developments planned within the New Town development master plan, as indicated in the Joint Permit Application dated March 1, 2002 and revised on March 25, 2003; site plans prepared by Williamsburg Environmental Group, Inc. and entitled, "Jurisdictional Area Impacts Map, Windsormeade Way" dated March 13, 2003; correspondence from Williamsburg Environmental Group, Inc. dated April 7, 2003 and July 9, 2003, and master plan prepared by AES Consulting Engineers entitled "New Town Plan" dated December 2, 1997.
- 2. The project activities, including any conditions and limitations, described in the Joint Permit Application and any supplemental materials submitted by the applicant, or authorized agent, shall be adhered to for the term of this permit.
- 3. The permittee shall notify the Department of Environmental Quality Tidewater Regional Office Virginia Water Protection Permit (DEQ TRO VWPP) Program of any additional impacts to surface waters, including wetlands or any change to the type of wetland impacts, associated with this project. Any additional impacts to surface waters, including wetlands, or any change to the type of wetland impacts, shall be subject to individual permit review or modification of this permit, and compensation may be required.
- 4. This permit is valid for 12 years from the date of issuance. Reissuance of the permit may be necessary if any portion of the authorized activities or any permit requirement has not been completed. The original permit term and extension cannot exceed the maximum of 15 years.

B. Standard Project Conditions

- 1. The activities authorized by this permit shall be executed in a manner to minimize any adverse impact on stream beneficial uses, as defined in § 62.1-10(b) of the Code.
- 2. No activity shall substantially disrupt the movement of aquatic life indigenous to the water body, including those species that normally migrate through the area, unless the primary purpose of the activity is to impound water. Culverts placed in streams shall be installed to maintain low flow conditions. No activity may cause more than minimal adverse effect on navigation. The activity shall not impede the passage of normal or expected high flows and the structure or discharge shall withstand expected high flows. Flows downstream of the project area shall be maintained to protect all uses.

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VWP Individual Permit No. 02-0454 Part I - Special Conditions Page 2 of 10

3. The permittee shall conduct activities in accordance with the time-of-year (TOY) restrictions as recommended by the Department of Game and Inland Fisheries or as required by the Virginia Marine Resources Commission. The permittee shall maintain a copy of such TOY restriction or notification that no restriction is necessary, for the duration of the construction phase of the project.

All excavation, dredging, and/or filling in surface waters shall be accomplished in a manner that minimizes stream bottom disturbances and turbidity increases.

- 5. All non-impacted surface waters and required upland buffers within the project or right-of-way limits that are within fifty feet of any project activities shall be clearly flagged or demarcated for the life of the construction activity within that area. The permittee shall notify all contractors and subcontractors that these marked areas are areas where no activities are to occur.
- 6. Virginia Water Quality Standards shall not be violated in any surface water as a result of the project activities.
- Temporary disturbances to wetlands during construction shall be avoided and minimized to the maximum extent practicable. All temporarily disturbed wetland areas shall be stabilized within 30 days of completing work in each respective impact area, restored to pre-construction conditions, and planted or seeded with appropriate wetland vegetation according to cover type (emergent, scrub/shrub, or forested). The permittee shall take all appropriate measures to promote revegetation of temporarily disturbed wetland areas with wetland vegetation by the second year post-disturbance. All temporary fills shall be removed in their entirety and the affected area returned to pre-existing contours.
- 8. Heavy equipment in temporarily impacted surface waters shall be placed on mats, geotextile fabric, or other suitable measures to minimize soil disturbance to the maximum extent practicable. Mats shall be removed as soon as the work is complete.
- 9. All materials (including fill, construction debris, and excavated and woody materials) temporarily stockpiled in wetlands shall be placed on mats or geotextile fabric, immediately stabilized to prevent entry into surface waters, managed such that leachate does not enter surface waters, and entirely removed within 30 days following completion of that construction activity. Disturbed areas shall be returned to original contours, stabilized within 30 days following removal of the stockpile, and restored to the original vegetated state.
- 10. Erosion and sedimentation controls shall be designed in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992. These controls shall be placed prior to clearing and grading and maintained in good working order to minimize impacts to surface waters. These controls shall remain in place until the area stabilizes.

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VWP Individual Permit No. 02-0454
Part I - Special Conditions
Page 3 of 10

- 11. Any exposed slopes or streambanks shall be stabilized immediately upon completion of work in each impact area in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992.
- 12. The permittee shall employ measures to prevent spills of fuels, lubricants, or other pollutants into surface waters.
- 13. All construction, construction access (for example, cofferdams, sheetpiling, and causeways) and demolition activities associated with this project shall be accomplished in a manner that minimizes construction or waste materials from entering surface waters to the maximum extent practicable, unless authorized by this permit.
- 14. All fill material shall be clean and free of contaminants in toxic concentrations or amounts in accordance with all applicable laws and regulations.
- 15. Wet or uncured concrete shall be prohibited from entry into surface waters.
- 16. No machinery may enter surface waters, unless authorized by this permit.
- 17. In issuing this permit, DEQ has not taken into consideration the structural stability of any proposed structure.

C. Construction Monitoring

1. A photo station shall be established at each impact site authorized by this permit. The photograph orientation at these stations shall remain constant during all monitoring events. The photographs shall document site activities and conditions, which should include installation and maintenance of erosion and sediment controls, flagged non-impact surface waters and required upland buffers, filling and excavation activities, pipe/culvert installation, and site stabilization activities. Photographs shall be taken prior to site activities, at the end of each month, and within one week of construction completion. Monthly photographs at each impact site shall not be required until construction activities are initiated at that site. Monthly photographs at each impact site shall not be required following completion of construction at that impact site and site stabilization. Each photograph shall be labeled to include the following information: permit number, impact area and photo station number, date and time of the photograph, name of the person taking the photograph, photograph orientation, and photograph subject description.

D. Required Notifications and Submittals

1. All written communications required by this permit shall be submitted to the DEQ TRO VWPP Program. Please include the permit number on all correspondence.

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- 2. All reports required by this permit and other information requested by the DEQ TRO VWPP Program shall be signed by the applicant or a person acting in the applicant's behalf, with the authority to bind the applicant. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above; and
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, superintendent, or position of equivalent responsibility. A duly authorized representative may thus be either a named individual or any individual occupying a named position.
 - c. If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization shall be submitted to DEQ prior to or together with any separate information, or applications to be signed by an authorized representative.
- 3. All submittals required by this permit shall contain the following signed certification statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

- 4. Any fish kills or spills of fuels or oils shall be reported immediately upon discovery. If spills or fish kills occur between the hours of 8:15 AM to 5:00 PM Monday through Friday, DEQ TRO shall be notified at 757-518-2077; otherwise, the Department of Emergency Services shall be notified at 1-800-468-8892.
- 5. Violations of Virginia Water Quality Standards shall be reported within 24 hours to DEQ TRO at 757-518-2077.
- 6. DEQ shall be notified in writing when potential environmentally threatening conditions are encountered which require debris removal or involve potentially toxic substances. Measures to remove the obstruction, material, or toxic substance or to change the location of any structure are prohibited until approved by DEQ.

Construction

7. The DEQ TRO VWPP Program shall be notified in writing at least ten days prior to the start of activities authorized by this permit so that inspections of the project can be

VWP Individual Permit No. 02-0454
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planned, if deemed necessary. The notification shall include a projected schedule for completing work at the permitted impact area.

- 8. Construction monitoring reports shall be submitted to the DEQ TRO VWPP Program within 30 days of each monitoring event. The reports shall include, as appropriate, the following:
 - a. A written narrative stating whether work was performed, a description of the work performed at each impact area, when the work was initiated, and expected date of completion; a summary of activities conducted to comply with the permit conditions; a summary of permit non-compliance events or problems encountered, subsequent notifications, and corrective actions; a summary of anticipated work to be completed during the next reporting period; and an estimated date of project completion.
 - b. A labeled site map depicting all impact areas and photo stations.
 - c. Properly labeled photographs as described in Part I Section C.
- 9. Written notification and photographs shall be submitted within 30 days of restoration demonstrating that all temporarily disturbed wetland areas have been restored in compliance with the permit conditions.
- 10. The DEQ TRO VWPP Program shall be notified in writing within 30 days following the completion of activities authorized by this permit.

Compensation

11. The permittee shall submit a final wetland compensation plan, which includes (at a minimum): the goals and objectives of the plan, in terms of replacement of functions and values and expressed in acres of each wetland type; discussion of buffers; discussion of structures and features necessary for the success of the site; the schedule for compensation site construction; a location map, including latitude and longitude (to the nearest second) at the center of the site; a hydrologic analysis, including a water budget (non-tidal sites only) based on expected monthly inputs and outputs which will project water level elevations for a typical year, a dry year and a wet year; groundwater elevation data, if available, or the proposed location of groundwater monitoring wells to collect these data; wetland delineation confirmation and data sheets and maps for existing wetland areas on the proposed site(s); a grading plan; a planting scheme and schedule, including suggested plant species, zonation and acreage of each vegetation type proposed; a soil preparation and amendment plan addressing both topsoil and subsoil conditions; design of water control structures; site access plan; a monitoring plan, including proposed success criteria, monitoring goals, and the location of photo stations, monitoring wells, soil sampling points (as appropriate), and vegetation sampling points, and reference wetlands (if available); an abatement and control plan for undesirable plant species, including, at a minimum, the species listed on DCR's Invasive Alien Plant Species of Virginia list, and including procedures to notify DEO of any undesirable plant species occurrences, methods of removal, and successful control; and an erosion and sedimentation control plan.

- 12. The final wetland compensation plan shall include protection of surface waters in perpetuity. These areas shall be surveyed or platted within 120 days of final plan approval, and the survey or plat shall be recorded in accordance with the requirements of this section. The restrictions, protections, or preservations, or similar instrument shall state that no activity will be performed on the property in any area designated as a compensation area or non-impacted surface water, with the exception of maintenance or corrective action measures authorized by DEQ. Unless specifically authorized by DEQ through the issuance of a VWP individual permit, modification of this permit, or waiver thereof, this restriction applies to ditching, land clearing or the filling, dumping, excavating, draining, flooding, or impounding. Such instrument shall contain the specific phrase "ditching, land clearing or discharge of dredge or fill material" in the limitations placed on the use of these areas. The protective instrument shall be recorded in the chain of title to the property. Proof of recordation shall be submitted within 60 days of survey or plat approval. This requirement is to preserve the integrity of compensation areas and to ensure that additional impacts to surface waters do not occur.
- 13. A projected schedule of activities and projected construction completion date (including planting) for the compensation site shall be submitted to the DEQ TRO VWPP Program within 15 days of permit issuance.
- 14. All wetland compensation monitoring reports shall be submitted by November 30th of the monitoring year. The reports shall include, at a minimum, the following:
 - a. A general description of the site including a site location map identifying photo stations, vegetative and soil monitoring stations, monitoring wells, and wetland zones.

b. Summary of activities completed during the monitoring year.

c. Description of monitoring methods.

d. An analysis of all hydrology information, including monitoring well data, precipitation data, and gauging data from streams or other open water areas set forth in the final compensation plan;

e. Evaluation of hydric soils or soils under hydric conditions;

f. An analysis of all vegetative community information, including woody and herbaceous species, both planted and volunteers, set forth in the final compensation plan;

g. Properly labeled photographs as described in Part I Section C.

- h. Discussion of wildlife or signs of wildlife observed at the compensation site;
- i. Comparison of site conditions from the previous monitoring year and/or reference site.
- j. Discussion of corrective measures or maintenance activities to control undesirable species, to repair any damaged water control device, or to replace any damaged planted vegetation.

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15. Documentation of the total wetland acreage by wetland type based on the surveyed boundary shall be submitted within 30 days of the final monitoring event.

E. Road Crossings

- 1. Access roads shall be constructed to minimize the adverse effects on surface waters to the maximum extent practicable and to follow as near as possible pre-construction contours and elevations. Access roads constructed above pre-construction contours and elevations in surface waters shall be properly bridged or culverted to maintain surface flows.
- 2. At crossings of perennial streams, pipes and culverts shall be countersunk a minimum of six inches to provide for the re-establishment of a natural stream bottom and to maintain a low flow channel. For multiple-celled culverts, only those cells situated within the limits of ordinary high water shall be countersunk. Countersinking is not required for existing pipes or culverts that are being maintained or extended.
- 3. Installation of pipes and road crossings shall occur in the dry via the implementation of cofferdams, sheetpiling, stream diversions or other similar structures.
- 4. All surface waters temporarily affected by a road crossing shall be restored to their original elevations immediately following the construction of that particular crossing.
- 5. If stream channelization or relocation is required, all work in surface waters shall be done in the dry, unless authorized by this permit, and all flows shall be diverted around the channelization or relocation area until the new channel is stabilized. This work shall be accomplished by leaving a plug at the inlet and outlet ends of the new channel during excavation. Once the new channel has been stabilized, flow shall be routed into the new channel by first removing the downstream plug and then the upstream plug. The new stream channel shall be constructed following the typical sections submitted with the application. A low flow channel shall be constructed within the channelized or relocated area. The centerline of the low flow channel shall meander, to the extent possible, to mimic natural stream morphology. The rerouted stream flow shall be fully established before construction activities in the old streambed can begin.
- 6. Stream bottom elevations at road crossings shall be measured at the inlet and outlet of the proposed structure and recorded prior to construction and within one week after the completion of construction to ensure that the design elevations were met.

F. Compensation On Site and Off Site

General Compensation Requirements

1. The final compensation plan shall be approved by the DEQ TRO VWPP Program prior to any construction activity in permitted impact areas. The final compensation plan as approved by DEQ shall be an enforceable requirement of this permit. Any

VWP Individual Permit No. 02-0454
Part I - Special Conditions
Page 8 of 10

deviation from the approved plan must be submitted to and approved in advance of implementation by DEQ.

- 2. Compensation site construction (i.e. land disturbance) must be complete by November 30, 2003.
- 3. Planting of woody plants shall occur when vegetation is normally dormant unless otherwise approved in the final compensation plan.
- 4. Rooted seedlings or cuttings shall originate from a local nursery or be adapted to local conditions. Vegetation shall be native species common to the area, shall be suitable for growth in local wetland conditions, and shall be from areas within approximately 200 miles from the project site.
- 5. Undesirable plant species shall be identified and controlled as described in the abatement and control plan for undesirable plant species, such that they are not dominant species or do not change the desired community structure. The abatement and control plan shall include procedures to notify the DEQ TRO VWPP Program of any undesirable plant species occurrences, methods of removal, and successful control.
- 6. Herbicides or algaecides shall not be used in or immediately adjacent to the compensation site or sites without prior authorization from the DEQ TRO VWPP Program. All vegetation removal shall be done by manual means, unless authorized by the DEQ TRO VWPP Program in advance.
- 7. For compensation sites involving land disturbance, a site stabilization plan shall be submitted to the DEQ TRO VWPP Program at least 60 days prior to compensatory mitigation construction activities.
- 8. Point sources of stormwater runoff shall be prohibited from entering any compensation site prior to treatment by appropriate best management practices. Appropriate best management practices may include sediment traps, grassed waterways, vegetated filter strips, debris screens, oil and grease separators, and forebays.
- 9. If the compensation area fails to be established as per the specified performance criteria, the reasons for this failure shall be determined and a corrective action plan, schedule, and monitoring plan shall be submitted to the DEQ TRO VWPP Program for approval prior to or with the next required monitoring report. All problems shall be corrected by the permittee. Shall significant changes be necessary to ensure success, the monitoring plan shall begin again, with monitoring year one being the year changes are complete.

Wetland Compensation

10. The permittee shall compensate for the impacts to 0.82 acres of nontidal forested wetlands and 0.07 acres of intermittent stream through the off-site restoration of 0.82 acres of nontidal forested wetlands and the on-site preservation of a combination of forested wetlands, and uplands containing the state endangered small whorled pogonia, at

VWP Individual Permit No. 02-0454
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a 10:1 ratio, and upland buffer at a 15:1 ratio as proposed in the mitigation plan prepared by Williamsburg Environmental Group, Inc. entitled "Wetland Compensation Plan, Harrison Ruffin Property, Charles City County", dated April 21, 2003 and last revised on July 29, 2003. The on-site preservation areas are located within the proposed Windsormeade of Williamsburg development as depicted on the drawing prepared by Williamsburg Environmental Group, Inc. entitled "Selected Alternative Wetland Impacts Map, Windsormeade of Williamsburg" dated February 15, 2002 and last revised on July 30, 2003. The compensation sites shall be preserved in perpetuity.

- 11. Wetland hydrology shall be considered established if depths to the seasonal high water table are equal to or less than 12 inches below ground surface for at least 12.5% of the growing season, for 28 consecutive days, as defined in the United States Department of Agriculture soil survey for the locality of the compensation site in all monitoring years under normal rainfall conditions, as defined in the water budget of the final compensation plan.
- 12. The presence of hydric soils or soils under hydric conditions shall be evaluated in accordance with the final compensation plan.
- 13. The wetland plant community shall be considered established according to the performance criteria specified in the final compensation plan and approved by the DEQ TRO VWPP Program. Species composition shall reflect the desired plant community types stated in the final compensation plan by the end of the first growing season and shall be maintained through the last monitoring year. Species composition shall consist of greater than 50% facultative (FAC) or wetter (FACW or OBL) vegetation, as expressed by plant stem density or aerial cover.
- 14. A post-grading survey, including spot elevations, of the site shall be required and shall be conducted by a licensed land surveyor or a professional engineer. Post-grading elevations for the compensation site shall be sufficient to ensure that wetland hydrology will be achieved on the site to support the goals and objectives of the compensation plan.
- 15. Compensation site monitoring for hydrology, soils, and hydrophytic vegetation shall begin at the first complete growing season (monitoring year one) following compensation site construction. Monitoring shall be required for monitoring years 1, 2, 4, 7, and 10. If all success criteria have not been met in the final monitoring year, then monitoring shall be required for each consecutive year until two annual sequential reports indicate that all criteria have been successfully satisfied (i.e., that corrective actions were successful).
- 16. Photographs shall be taken at the compensation site from the permanent photo stations identified in the final compensation plan. At each station, four photographs shall be taken in the direction of the major compass points. These photographs shall be taken after the initial planting and in August or September every monitoring year. Photographs shall be appropriately labeled as described in Part I Section C.

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- 17. The establishment of wetland hydrology shall be measured during the growing season, with the location and number of monitoring wells, and frequency of monitoring for each site, in accordance with the final compensation plan. All hydrology monitoring well data shall be accompanied by precipitation data, including rainfall amounts, either from on site, or from the closest weather station. Once the wetland hydrology success criteria have been satisfied for a particular monitoring year, monitoring may be discontinued for the remainder of that monitoring year following DEQ TRO VWPP Program approval.
- 18. The establishment of wetland vegetation shall be in accordance with the final compensation plan. Monitoring shall take place in August or September during the growing season of each monitoring year, unless otherwise authorized in the monitoring plan.
- 19. During each monitoring event, the permittee shall document all wildlife or signs of wildlife observed at the site.
- 20. The wetland boundary for the compensation site shall be based on the results of the hydrology, soils, and vegetation monitoring data. Calculation of total wetland acreage by wetland type shall be based on that boundary at the end of the monitoring cycle and shall be shown on the site plan. Data shall be submitted within 30 days of the final monitoring event.

VWP Individual Permit No. 02-0454 Part II - General Conditions Page 1 of 6

A. Duty to Comply

The permittee shall comply with all conditions of the VWP permit. Nothing in the VWP permit regulations shall be construed to relieve the permittee of the duty to comply with all applicable federal and state statutes, regulations and prohibitions. Any VWP permit violation is a violation of the law, and is grounds for enforcement action, VWP permit termination, revocation, modification, or denial of an application for a VWP permit extension or reissuance.

B. Duty to Cease or Confine Activity

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the activity for which a VWP permit has been granted in order to maintain compliance with the conditions of the VWP permit.

C. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any impacts in violation of the permit which may have a reasonable likelihood of adversely affecting human health or the environment.

D. VWP Permit Action

- 1. A VWP permit may be modified, revoked and reissued, or terminated as set forth in 9 VAC 25-210 et seq.
- 2. If a permittee files a request for VWP permit modification, revocation, or termination, or files a notification of planned changes, or anticipated noncompliance, the VWP permit terms and conditions shall remain effective until the request is acted upon by the board. This provision shall not be used to extend the expiration date of the effective VWP permit. If the permittee wishes to continue an activity regulated by the VWP permit after the expiration date of the VWP permit, the permittee must apply for and obtain a new VWP permit or comply with the provisions of 9 VAC 25-210-185 (VWP Permit Extension).
- 3. VWP permits may be modified, revoked and reissued or terminated upon the request of the permittee or other person at the board's discretion, or upon board initiative to reflect the requirements of any changes in the statutes or regulations, or as a result of VWP permit noncompliance as indicated in the Duty to Comply subsection above, or for other reasons listed in 9 VAC 25-210-180 (Rules for Modification, Revocation and Reissuance, and Termination of VWP permits).

E. <u>Inspection and Entry</u>

Upon presentation of credentials, any duly authorized agent of the board may, at reasonable times and under reasonable circumstances:

VWP Individual Permit No. 02-0454 Part II - General Conditions Page 2 of 6

- 1. Enter upon any permittee's property, public or private, and have access to, inspect and copy any records that must be kept as part of the VWP permit conditions;
- 2. Inspect any facilities, operations or practices (including monitoring and control equipment) regulated or required under the VWP permit, and
- 3. Sample or monitor any substance, parameter or activity for the purpose of ensuring compliance with the conditions of the VWP permit or as otherwise authorized by law.

F. Duty to Provide Information

- 1. The permittee shall furnish to the board any information which the board may request to determine whether cause exists for modifying, revoking, reissuing or terminating the VWP permit, or to determine compliance with the VWP permit. The permittee shall also furnish to the board, upon request, copies of records required to be kept by the permittee.
- 2. Plans, specifications, maps, conceptual reports and other relevant information shall be submitted as required by the board prior to commencing construction.

G. Monitoring and Records Requirements

- 1. Monitoring of parameters, other than pollutants, shall be conducted according to approved analytical methods as specified in the VWP permit. Analysis of pollutants will be conducted according to 40 CFR Part 136 (2000), Guidelines Establishing Test Procedures for the Analysis of Pollutants.
- 2. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- 3. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart or electronic recordings for continuous monitoring instrumentation, copies of all reports required by the VWP permit, and records of all data used to complete the application for the VWP permit, for a period of at least three years from the date of the expiration of a granted VWP permit. This period may be extended by request of the board at any time.
- 4. Records of monitoring information shall include:
 - a. The date, exact place and time of sampling or measurements;
 - b. The name of the individuals who performed the sampling or measurements;
 - c. The date and time the analyses were performed;
 - d. The name of the individuals who performed the analyses;

- e. The analytical techniques or methods supporting the information such as observations, readings, calculations and bench data used;
- f. The results of such analyses; and
- g. Chain of custody documentation.

H. Transferability

This VWP permit may be transferred to a new permittee only by modification to reflect the transfer, by revoking and reissuing the permit, or by automatic transfer. Automatic transfer to a new permittee shall occur if:

- 1. The current permittee notifies the board within 30 days of the proposed transfer of the title to the facility or property;
- 2. The notice to the board includes a written agreement between the existing and proposed permittee containing a specific date of transfer of VWP permit responsibility, coverage and liability to the new permittee, or that the existing permittee will retain such responsibility, coverage, or liability, including liability for compliance with the requirements of any enforcement activities related to the permitted activity; and
- 3. The board does not within the 30-day time period notify the existing permittee and the new permittee of its intent to modify or revoke and reissue the VWP permit.

I. Property rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize injury to private property or any invasion of personal rights or any infringement of federal, state or local law or regulation.

J. Reopener

Each VWP permit shall have a condition allowing the reopening of the VWP permit for the purpose of modifying the conditions of the VWP permit to meet new regulatory standards duly adopted by the board. Cause for reopening VWP permits includes, but is not limited to when the circumstances on which the previous VWP permit was based have materially and substantially changed, or special studies conducted by the board or the permittee show material and substantial change, since the time the VWP permit was issued and thereby constitute cause for VWP permit modification or revocation and reissuance.

K. Compliance with State and Federal Law

Compliance with this VWP permit constitutes compliance with the VWP permit requirements of the State Water Control Law. Nothing in this VWP permit shall be construed to preclude the institution of any legal action under or relieve the permittee from

VWP Individual Permit No. 02-0454 Part II - General Conditions Page 4 of 6

any responsibilities, liabilities, or other penalties established pursuant to any other state law or regulation or under the authority preserved by § 510 of the Clean Water Act.

L. Severability

The provisions of this VWP permit are severable.

M. Permit Modification

A VWP permit may be modified, but not revoked and reissued except when the permittee agrees or requests, when any of the following developments occur:

- 1. When additions or alterations have been made to the affected facility or activity which require the application of VWP permit conditions that differ from those of the existing VWP permit or are absent from it;
- 2. When new information becomes available about the operation or activity covered by the VWP permit which was not available at VWP permit issuance and would have justified the application of different VWP permit conditions at the time of VWP permit issuance;
- 3. When a change is made in the promulgated standards or regulations on which the VWP permit was based;
- 4. When it becomes necessary to change final dates in schedules due to circumstances over which the permittee has little or no control such as acts of God, materials shortages, etc. However, in no case may a compliance schedule be modified to extend beyond any applicable statutory deadline of the Act;
- 5. When changes occur which are subject to "reopener clauses" in the VWP permit; or
- 6. When the board determines that minimum instream flow levels resulting from the permittee's withdrawal of water are detrimental to the instream beneficial use and the withdrawal of water should be subject to further net limitations or when an area is declared a Surface Water Management Area pursuant to §§ 62.1-242 through 62.1-253 of the Code of Virginia, during the term of the VWP permit.

N. Permit Termination

After notice and opportunity for a formal hearing pursuant to Procedural Rule No. 1 (9 VAC 25-230-100) a VWP permit can be terminated for cause. Causes for termination are as follows:

- 1. Noncompliance by the permittee with any condition of the VWP permit;
- 2. The permittee's failure in the application or during the VWP permit issuance process to disclose fully all relevant facts or the permittee's misrepresentation of any relevant facts at any time;
- 3. The permittee's violation of a special or judicial order;

VWP Individual Permit No. 02-0454 Part II - General Conditions Page 5 of 6

- 4. A determination by the board that the permitted activity endangers human health or the environment and can be regulated to acceptable levels by VWP permit modification or termination;
- 5. A change in any condition that requires either a temporary or permanent reduction or elimination of any activity controlled by the VWP permit; and
- 6. A determination that the permitted activity has ceased and that the compensatory mitigation for unavoidable adverse impacts has been successfully completed.

O. Civil and Criminal Liability

Nothing in this VWP permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this VWP permit shall be construed to preclude the institution of legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under § 311 of the Clean Water Act or §§ 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. <u>Unauthorized Discharge of Pollutants</u>

Except in compliance with this VWP permit, it shall be unlawful for the permittee to:

- 1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances;
- 2. Excavate in a wetland;
- 3. Otherwise alter the physical, chemical, or biological properties of state waters and make them detrimental to the public health, to animal or aquatic life, to the uses of such waters for domestic or industrial consumption, for recreation, or for other uses.
- 4. On or after October 1, 2001 conduct the following activities in a wetland:
 - a. New activities to cause draining that significantly alters or degrades existing wetland acreage or functions;
 - b. Filling or dumping;
 - c. Permanent flooding or impounding;

VWP Individual Permit No. 02-0454 Part II - General Conditions Page 6 of 6

d. New activities that cause significant alteration or degradation of existing wetland acreage or functions.

R. Permit Extension

1. Any permittee with an effective VWP permit for an activity that is expected to continue after the expiration date of the VWP permit, without any change in the activity authorized by the VWP permit, shall submit written notification request if an extension. The permittee must file the request prior to the expiration date of the VWP permit. Under no circumstances will the extension be granted for more than 15 years beyond the original effective date of the VWP permit. If the request for extension if denied, the VWP permit will still expire on its original date and, therefore, care should be taken to allow for sufficient time for the board to evaluate the extension request and to process a full VWP permit modification, if required.



James City County, Virginia Environmental Division

Erosion and Sediment Control and Stormwater Management Design Plan Checklists

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Plan Prep. Project Lo Tax Map / County Pl County Bl	GENERAL INFORMATION Jame: Windsor Mede V. La Entrance & Sewer Applicant: VA United Methodist formes Description: Windsor Mede Way off Medicello Parcel: (38-3) (1-34A) Jan No. (if known): SP-5-04 MP Type: Ex Description Dry Pond Design or Construction Drawings (Plans, Profiles, Deta Erosion & Sediment Control Plan (Plans, Details, etc.). Erosion & Sediment Control Plan Design Report. Stormwater Management Design Report. Stormwater Management Design Report. Other, List:	(F-Z) Il that apply): rails, etc.).
		Issue Date

Issue Date March 1, 2001

JAMES CITY COUNTY, VIRGINIA **ENVIRONMENTAL DIVISION**

EROSION AND SEDIMENT CONTROL PLAN CHECKLIST

I. <u>G</u>	ENERAL:
Yes No N.	FAMILIARITY with current versions of Chapter 8, Erosion and Sedimentation Control and Chapter 23, Chesapeake Bay Preservation ordinances of the Code of James City County, Virginia and the Virginia Erosion and Sediment Control Handbook (VESCH).
× 00	LAND DISTURBING PERMIT AND SILTATION AGREEMENT with surety are required for the project.
	VARIANCE if necessary, requested in writing, for the plan approving authority to waive or modify any of the minimum standards and specifications of the VESCH deemed inappropriate based on site conditions specific to this review case only. Variances which are approved shall be properly documented in the plan and become part of the approved erosion and sediment control plan for the site.
II. <u>SI</u>	TE PLAN:
Yes No N/	A VICINITY MAP locating the site in relation to the surrounding area. Include any major landmarks which might assist in physically locating the site.
X oo	INDICATE NORTH direction in relation to the site.
× 00	LIMITS OF CLEARING AND GRADING for the site including that required for implementation of erosion and sediment controls, stockpile areas and utilities.
) oo	DISTURBED AREA ESTIMATES in acres or square feet for the project.
)a o o	EXISTING TOPOGRAPHY or contours for the site at no more than 5 foot contour interval.
Ø o o	FINAL TOPOGRAPHY, contours or proposed site grading in accordance with the design plan which indicates changes to existing topography and drainage patterns at no more than 2 foot contour interval (or 1 foot contours where required).
ğ o o	EXISTING AND PROPOSED SPOT ELEVATIONS to supplement existing and proposed contours, topography or site grading information. Spot elevations may replace final contours in some instances, especially if terrain is in a low lying area or relatively flat.
X OO	EXISTING VEGETATION including existing tree lines, grassed or unique vegetation areas

EXISTING VEGETATION including existing tree lines, grassed or unique vegetation areas.

Yes No N/A	
P D D	EXISTING SITE FEATURES including roads, buildings, homes, utilities, streams, fences, structures and other important surface features of the site.
)X 0 0	SOILS MAP with soil symbols, boundaries and legend in accordance with the current Soil Survey of James City and York Counties and the City of Williamsburg, Virginia.
× 0 0	ENVIRONMENTAL INVENTORY in accordance with Section 23-10(2) of the Chesapeake Bay Preservation Ordinance of James City County. Inventory generally includes: tidal shores and wetlands, non-tidal wetlands, resource protection area, hydric soils and slopes steeper than 25 percent. For wetlands, provide a copy of issued permits or satisfactory evidence that appropriate permits are being pursued for the entire project.
<u>*</u>	100-YEAR FLOODPLAIN LIMITS or any special flood hazard areas or flood zones based on appropriate Federal Management Agency Flood Insurance Rate Maps (FIRMs) or Flood Hazard Boundary Maps (FHBMs) of James City County, Virginia.
) Diana	DRAINAGE AREAS for offsite and onsite areas, existing or proposed as applicable. Include drainage divides and directional labels for all subareas at points of interest and size (in acres), weighted runoff coefficient or curve number and times of concentration for each subarea.
* 0 0	CRITICAL EROSION AREAS which require special consideration or unique erosion and sediment control measures. Refer to the VESCH, Chapter 6 for criteria.
À (00	DEVELOPMENT PLAN for the site showing all improvements such as buildings, structures, parking areas, access roadways, above and below ground utilities, stormwater management and drainage facilities, trails or sidewalks, proposed vegetation and landscaping, amenities, etc.
% 00	LOCATIONOF PRACTICES proposed for erosion and sediment control, tree protection and temporary stormwater management due to land disturbance activities at the site. Use standard abbreviations, labels and symbols consistent for plan views based on minimum standards and specifications in Chapter 3 of the VESCH.
× oo	TEMPORARY STOCKPILE AREAS or staging and equipment storage areas as required for onsite or offsite construction activities or indicate that none are anticipated for this project.
_ A	OFFSITE LAND DISTURBING AREAS including borrow sites, waste areas, utility extensions, etc. and required erosion and sediment controls. If none are anticipated for the project, then indicate on the plans by general or erosion and sediment control notes.
) Joo	DETAILS or alternately, appropriate reference to current minimum standards and specifications of the VESCH for each measure proposed for the project. Non-modified, standard duplicated details (silt fence, diversion dikes, etc.) may be referenced to the current version of the VESCH. Specific dimensional or modified standards (basins, traps, outlet protections, check dams, etc.) require presentation on detail sheets. Schedules or tables may be used for multiple site measures such as sediment traps, basins, channels, slope drains, etc. Any modification to standard details should be clearly defined, explained and illustrated.

Yes No N/A	MAINTENANCE PLAN or alternately, appropriate reference to current minimum standards and specifications of the VESCH, outlining the inspection frequency and maintenance requirements for all erosion and sediment control measures proposed for the project.
	TRENCH DEWATERING methods and erosion and sediment controls, if anticipated for the project.
ø o o	CONSTRUCTION SEQUENCE outlining the anticipated sequence for installation of erosion and sediment controls and site, grading and utility work to be performed for the project by the site contractor.
000	PHASING PLAN if required for larger project sites that are to be developed in stages or phases.
A o o	STANDARD COUNTY NOTES are required to be placed on the erosion and sediment control plan. Refer to the standard James City County Erosion and Sediment Control Notes dated May 5, 1999.
) (0 0	PROFESSIONAL SEAL AND SIGNATURE required on final and complete approved plans, drawings, technical reports and specifications.
III. <u>NARI</u>	RATIVE:
Yes No N/A	
Yes No N/A	PROJECT DESCRIPTION briefly describing the nature and purpose of the land disturbing activity and the acreage to be disturbed.
× 0 0	EXISTING SITE CONDITIONS description of existing topography, land use, cover and drainage patterns at the site.
×00	ADJACENT AREA descriptions of neighboring onsite or offsite areas such as streams, lakes, property, roads, etc. and potential impacts due to concentrated flow or runoff from the land disturbing activity.
4 00	OFFSITE DISTURBED AREA descriptions of proposed borrow sites, waste or surplus areas, utility extensions and erosion and sediment controls to be implemented.
X 0 0	SOILS DESCRIPTION briefly summarizing site, disturbed area and drainage basin soils including name, unit, hydrologic soil group (HSG) classification, surface runoffpotential, erodibility, permeability, depth, texture, structure, erosion hazards, shrink-swell potential, limitations for use and anticipated depths to bedrock and the seasonal water table, as applicable.
ស្ ០០	CRITICAL AREAS on the site which many have potentially serious erosion and sediment control problems and special considerations required (ie. steep slopes, hydric soils, channels, springs, sinkholes, water supply reservoirs, groundwater recharge areas, etc.)



Yes No N/A	
Yes No N/A	PROPOSED EROSION & SEDIMENT CONTROL MEASURES inclusive to the specific erosion and sediment control plan as proposed for the land disturbing activity. Measures should be consistent with those proposed on the site drawings. Address general use, installation, limitations, sequencing and maintenance requirements for each control measure.
	STABILIZATION MEASURES required for the site, either temporary or permanent, and during and following construction including temporary and permanent seeding and mulching, paving, stone, soil stabilization blankets and matting, sodding, landscaping or special stabilization techniques to be utilized at the site.
×oo	STORMWATER MANAGEMENT CONSIDERATIONS for the site, either of temporary or permanent nature, and strategies, sequences and measures required for control. May reference the stormwater management plan for the site, if prepared, for permanent stormwater management facilities and control of drainage once the site is stabilized.

IV. CALCULATIONS:

Yes No N/A □ □	CALCULATIONS AND COMPUTATIONS associated with hydrology, hydraulics and design of proposed temporary and permanent erosion and sediment control measures including: sediment traps and basins, diversions, stormwater conveyance channels, culverts, slope
	drains, outlet protections, etc. Computations are not required on the construction plan and may be attached in a supplemental erosion and sediment control plan design report, if presented in a clear and organized format.
× 00	TEMPORARY SEDIMENT BASIN DESIGN DATA SHEET submitted for each basin along

TEMPORARY SEDIMENT BASIN DESIGN DATA SHEET submitted for each basin along with schematic or sketch cross-section showing applicable design and construction data, storage volumes (wet-dry), dimensions and elevations. Peak design runoff to be based on the 2- or 25-year design storm event based on maximum disturbed site conditions (existing, interim or proposed conditions) in accordance with Minimum Standard 3.14 of the VESCH.

JAMES CITY COUNTY, VIRGINIA ENVIRONMENTAL DIVISION

STORMWATER MANAGEMENT DESIGN PLAN CHECKLIST

I. <u>GENERAL:</u>

Yes No N/A	FAMILIARITY with current versions of the James City County Guidelines for Design and Construction of Stormwater Management BMPs manual; Chapter 8, Erosion and Sediment Control and Chapter 23, Chesapeake Bay Preservation ordinances of the Code of James City County, Virginia; the Virginia Erosion and Sediment Control Handbook (VESCH); and the Virginia Stormwater Management Handbook (VSMH).
	WAIVER OR EXCEPTION if necessary, requested in writing, for the plan approving authority to waive or except the requirements of Chapter 23, Chesapeake Bay Preservation ordinance in accordance with procedure established in Sections 23-14 through 23-17 of the ordinance. Applies to this review case only.
000	VARIANCE REQUEST if necessary, requested in writing for the plan approving authority to waive or modify any of the minimum standards and specifications of the VESCH deemed inappropriate based on site conditions specific to this review case only. Variances which are approved shall be properly documented in the plan and become part of the approved erosion and sediment control plan for the site.
	PROFESSIONAL SEAL AND SIGNATURE required on final and complete approved stormwater management plans, drawings, technical reports and specifications.
à o o	WORKSHEET FOR BMP POINT SYSTEM to ensure the stormwater management plan for the project attains at least 10 BMP points (New Development) or traditional pollutant load reduction computations per the Chesapeake Bay Local Assistance Manual (Redevelopment Only).
	PROPOSED CONSERVATION EASEMENT AREAS for any natural open space points claimed in the BMP worksheet.
)X(OO	INSPECTION/MAINTENANCE AGREEMENT is required to be prepared and executed with the County for the project.
× O O	FEMA FIRM PANEL reference with designated special flood hazard areas or zone designations associated with the site, as applicable.
	DRAINAGE AREA MAP at a maximum scale of 1"=200' scale showing drainage area boundaries for pre- and postdevelopment conditions and associated time of concentration flow paths. Labels to include drainage area size, runoff coefficient or curve number and time of concentration for each subarea shown on the map.



Yes No N/A	SOILS MAP with soil symbols, boundaries and legend in accordance with the current S Survey of James City and York Counties and the City of Williamsburg, Virginia with approximate locations of the project site, BMPs and applicable drainage basins.						
A 00	STORMWATER MANAGEMENT NARRATIVE in a brief and simple format which describes the project; location; site and drainage basin soil characteristics; receiving water or drainage facility; existing site and drainage basin conditions (topography, land use, cover, slopes, etc.); proposed site development; proposed stormwater management and drainage plan including County BMP type selected; summary of hydrology and hydraulics; maintenance program; and any special assumptions utilized for development of the stormwater management and drainage design plan or computations.						
X O O	runoff encounterers erosion and sedir	TORMWATER MANAGEMENT (if applicable) for control of stormwater ed during construction activities in addition to measures provided in the ment control plan or stormwater management/drainage plan for the site. ion measures or sequencing provided.					
Ď.O.O	MODIFICATION PLAN clearly defined for temporary sediment control structures which will be converted to permanent SWM/BMP structures. Includes appropriate hydrologic and hydraulic computations, conversions, sequencing and cleanout information or details. Normally related to primary control structures associated with dry detention or wet retention ponds. Normally not permitted for Group C or D categories such as bioretention, infiltration and filtering system facilities.						
dy o o	11 inch size form identification, ow and computations headwater, hydra water quality, ext routing calculation or computer gene	MANAGEMENT and DRAINAGE DESIGN REPORT in a bound 8-1/2 x lat. Report shall generally include a title sheet, date, project oner and preparer information, table of contents, narrative, summaries as as required. Computations may include: backwater, closed conduit, rulic, hydraulic grade line, hydrology, inlet, open channel, storm sewer, rended detention or stream channel protection and muti-stage storm ons, as applicable, for the project. Computation data may include hand rated computations, maps or schematics. All information should be ar, easy to follow format and should closely match construction plan					
	PLAN VIEW at 1	inch = 50 ft. scale or less (1" = 40', 1" = 30', etc.) North arrow and plan legend. Property lines. Adjacent property information. Existing site features and existing impervious cover areas. Impervious cover tabulations. Existing drainage facilities (natural or manmade). Existing environmentally sensitive areas (RPA, wetlands, floodplain, steep slopes, critical soils, buffers, etc.). Existing and proposed contours (1' or 2' contour interval) and spot					
		elevations as necessary to define high and low topography.					

Yes	S INO IN/A	
	0 0	Proposed site improvements and proposed impervious cover areas.
0	0 0	Proposed stormwater conveyance, drainage and management facilities with appropriate labeled construction data and information.
o	0. 0	Proposed landscaping and seeding plans (disturbed areas, pond interior, etc.).
	0 0	Proposed slope stabilization areas (riprap, blankets, mattings, walls, etc.).
0	0 0	Delineation of permanent pools and the 1-, 2-, 10- and 100-year Design Water Surface Elevations.
0	0 0	Delineation of ponding, headwater, surcharge or backwater areas which may affect adjacent existing or proposed buildings, structures or upstream adjacent properties.
	0 0	Test boring locations with reference surface elevations (if known).
		Risers, barrels, underdrains, overflows and outlet protections.
	0 0	Emergency spillway level section and outlet channel.
		Existing and proposed site utilities and protection measures.
	0 0	Erosion and sediment control measures (for site or BMP).
	0 0	Maintenance or access corridors to permanent stormwater
		management, BMP or drainage facilities.
STORMWA Yes No N/A		Storm drain lengths, sizes, types, classes and slopes for all segments.
	0 0 0	Label directly on plan or use structure/pipe schedule. Access structure (inlets, manholes, junctions, etc.) rim elevations,
	.	inverts, type and required grate or top unit and lengths labeled.
		All structure numbers labeled.
,	000	Adequate horizontal clearance from other site utilities or structures.
¤(oo	not provide exceed max	generally are not required but are encouraged to expedite review. If d, ensure all pipe segments have adequate minimum cover, do not timum depths of cover for the type/class of pipe specified and do not h other site utilities or excavation areas.
va o o	DETAILS	
	000	Typical storm drain bedding details or reference note.
	000	Standard details or reference note for all proposed access structure types (inlets, manholes, junctions, etc.).
	000	Inlet shaping detail or applicable reference note.
	000	- · · · · · · · · · · · · · · · · · · ·
		Typical open channel details with designation, location, shape, type, bottom width, top width, lining, slope, length, side slope, and installation depth required for construction. Channel design data as
	a c c	necessary may also be included.
		Outlet protections at all nine outfalls

II.



Yes No N/A							
赵口口	S7	OR	MWA	TER CONVEYANCE SYSTEM COMPUTATIONS			
,				Storm Sewer Design computations based on 10-year design event.			
				Hydraulic Grade Line computations based on 10-year design event.			
				Inlet computations based on current VDOT procedure for spread,			
				ponding depth and grate size required.			
				Culvert Headwater computations. Design based on 10-year design			
				storm event and check only for 100-year storm event.			
				Open Channel computations based on 2-year design event for velocity			
	_	_	_	and 10-year design event for capacity.			
				Standard outlet protection or special energy dissipators.			
				Pipe thickness design computations, as required, for selected pipe			
	_	_		type (live load, minimum cover, maximum height of cover, etc.).			
		U		Adequate channel computations for receiving channels (based on field measured channel section data).			
				neid measured channel section data).			
STORMWA	TER	M.	ANA	GEMENT / BMP FACILITIES:			
Yes No N/A							
				GY - An SCS based methodology is required for the design of			
				management/BMP facilities with watersheds exceeding 20 acres.			
		Under 20 acres, other generally accepted methodologies such as the modified rational, critical storm are allowable. Refer to Chapter 5 of the VESCH or Chapter					
			ai, cri ie VS				
				Runoff Curve Number or Coefficient determinations: predeveloped			
				and ultimate development land use scenarios.			
				Time of concentration: predeveloped and ultimate development			
				indicating overland, shallow concentrated, and channel flow			
	_	_	_	components (200 ft. maximum length for overland flow).			
	U		u	Hydrograph generation (tabular or graphical): pre- and			
				postdevelopment conditions for the 1-, 2-, 10-, and 100-year design storm events.			
,				storm events.			
Ø o o	FA	CII	ITY (CONFIGURATION and MINIMUM SEPARATIONS			
`				Screening and layout consistent with Section 24-98(d) of the Chapter			
				24 Zoning ordinance (landscaping, screening, visibility, etc.).			
			0	Basic considerations for safety and unauthorized entry.			
				Proper length to width ratio (Typically 2H:1V).			
				Facilities with deep pools (4 feet or more in depth) provided with two			
				benches. Fifteen (15) ft. safety bench outward from normal pool at			
				maximum 6 percent slope and aquatic bench inward from normal			
				shoreline below normal pool. Narrower widths may be considered on			
	_	_	_	a case-by-case basis.			
			J	Pond buffer minimum 25 feet outward from maximum design WSEL.			
			П	Additional setbacks may be required to permanent structures.			
	٠	_	<u> </u>	No trees, shrubs or woody plants within 15 feet of embankment toe or 25 feet from principal spillway structure.			
				25 foot from principal spinway structure.			



III.

	Yes No N/A	
	000	Infiltration and filtering system facilities generally located at least 100 feet horizontally from any water supply well; 100 feet from any downslope building; and 25 feet from any upslope buildings, unless site specific investigation allows for reduced separation.
Yes No N/A		1
Ø O O		C COMPUTATIONS
	000	Elevation- or Stage- Storage curve and/or tabular data.
		Weir / Orifice Control - Extended Detention.
		Weir / Orifice Control - riser 1-year control for channel protection. Weir / Orifice Control - riser 2-year control for quantity (if required).
		Weir / Orifice Control - riser 10-year control for quantity (if required).
		Inlet / Outlet (barrel) control - (All Storms).
	000	Check for barrel control prior to riser orifice flow to prevent slug flow-
	000	water hammer conditions.
		Emergency spillway capacity and depth of flow. Elevation - Discharge (Outlet Rating) curve and/or table. Provide all
		supporting calculations and/or design assumptions.
	000	Adequate channel computations for receiving channel. May be waived
		if facility is designed based on current Stream Channel Protection criteria.
		criteria.
A \ \tag{\tag{1}}	POND or R	ESERVOIR ROUTING
		Storage-Indication Routing of postdeveloped inflow hydrographs for the 1-, 2-, 10-, and 100-year design storms. Preference is for structure to discharge up to the 10-year storm through the principal spillway and pass the 100-year storm with a minimum 1 foot of freeboard through a combination principal and emergency spillways. If no emergency spillway is provided, riser must be large enough to pass the design high water flow and trash without overtopping the facility, have 3 square feet or more of cross-sectional area, contain a hood type inlet and have a minimum freeboard of 2 feet. Token spillways with minimum 8 ft. width are also recommended at or above the design 100-year storm elevation.
	000	Downstream hydrographs at established study points, if conditions warrant (ie. facility discharge combined with uncontrolled bypass).
គ្ ០០	MISCELLAI	NEOUS COMPUTATIONS
	000	Water quality volume for permanent pool based on selected BMP
		treatment volume (WQv).
		Water quality volume for extended detention based on selected BMP
	000	treatment volume (WQv) with drawdown computations. Drawdown computations for the 1-year, 24 hour detention for stream
		channel protection criteria.
	000	Pond drain computations (within 24 hours).
		Anti-seep collar design (concrete preferred) or match material type.
	000	Filter diaphragm design (or alternative method of controlling seepage).



	Yes	No N	'A
		ם כ	Riser / base structure flotation analyses. $FS = 1.25$ minimum.
		0	Downstream danger reach study and/or emergency action plan (if conditions warrant).
			Upstream backwater analyses onto offsite adjacent property (if conditions warrant).
	0 (0 0	100 year floodplain impacts (if conditions warrant).
Yes No N/A	an.	mnor	
			HNICAL REQUIREMENTS
			Geotechnical Report with recommendations specific to BMP facility type selected. Report prepared by a registered professional engineer. Requires submission, review and approval prior to issuance of Land Disturbance Permit.
	0 0	J (1)	Initial Feasibility Testing requirements satisfied as per Appendix E of
			the James City County Guidelines for Design and Construction of Stormwater Management BMPs manual. (Infiltration, Bioretention and Filtering System BMP types only).
	00	0	Concept Design Testing requirements satisfied as per Appendix E of the
			James City County Guidelines for Design and Construction of Stormwater Management BMPs manual. (Infiltration, Bioretention and Filtering System BMP types only).
		, 0	Minimum Boring locations: borrow area, pool area, principal control structure, top of facility near one abutment and emergency spillway if provided.
	0 0		Boring logs with Unified Soil Classification (ASTM D2487), soils descriptions and depths to bedrock and the seasonal water table indicated.
	0 0		Standard County Record Drawing/Construction Certification note provided on plan. Note: It is understood that preparation of record drawings and construction certifications as required for project facilities may not necessarily be performed by the plan preparer. These components may be performed by others.
X	PRIN	CIPAI	L SPILLWAY PROFILE AND ASSOCIATED DETAILS
Ì	Ka o	0	EXISTING GROUND AND PROPOSED GRADE □ □ □ Embankment or excavation side slopes labeled (3H:1V)
			maximum). I I I I I I I I I I I I I I I I I I I
			Removal of unsuitable material under proposed facility (per Geotechnical Report requirements).



Yes INO IN/	A	
X 0 0	CORE TRE	ENCH
,	000	Material (per plan or Geotechnical Report).
	000	Bottom width (4' minimum or greater as dictated by
		Geotechnical Report recommendations).
		Side slopes (1:1 maximum steepness)
	000	Depth (4' minimum or greater as dictated by Geotechnical
		Report).
vá o o	PRINCIP.	AL CONTROL STRUCTURE. RISER OR SIMILAR
		RE (DETAILS REQUIRED FOR ALL ITEMS)
	000	Durable, watertight, resistant material (concrete preferred)
	000	Riser diameter is at least 1.25 times larger than barrel
		diameter.
	000	All pertinent dimensions and elevations shown.
	000	Control orifice or weir dimensions and elevations shown.
	000	Trash rack - removable - for each release.
	000	Anti-vortex device, baffle or plate.
		Riser base structure with dimensions and embedment
•		specifications (concrete preferred).
		Interior access (steps, ladders, etc.) for maintenance for
		structures over 4 feet in height. Excessively high risers may need some form of exterior access on top portion.
	000	Low flow orifice with trash rack device.
		Low now office with trash rack device.
)acoo	PRINCIPAL	L CONTROL STRUCTURE OUTLET BARREL
(000	Material (ASTM C-361 reinforced concrete pipe) with
		watertight joints. Prior approval required for all other pipe
		material (other RCP types, CMP, CPP, PVC, etc.).
	000	Support and bedding requirements for barrel - concrete
		cradles, etc. or as recommended by the Geotechnical
		Report.
		Pipe inverts, length, size, class and slope shown.
	000	Flared end section or endwall provided on barrel outlet.
(a) a a	SEEPAGE (CONTROL
X.	000	Phreatic line shown (4:1 slope measured from the
		intersection of the embankment and the principal spillway
		design high water).
		ANTE CEED COLLARG
		ANTI-SEEP COLLARS Anti-seep collar, concrete preferred.
		☐ ☐ ☐ Anti-seep collar, concrete preferred. ☐ ☐ ☐ Size - 15 percent increase in length of
		saturation using outside pipe diameter.
		□ □ □ Spacing and location on barrel (located at
		least 2 feet from a pipe joint).

		FILTER DIAP	HRAGMS
		000	Design based on latest NRCS design methods and certified by a professional engineer.
Yes No N/	A		
X oo	ELEVATIO	N AND DIMENS	IONAL DESIGN DATA
	000		- construction height and settled height (10
	000	Crest of princip	al control structure spillway at least one (1) of emergency spillway, if provided.
	000	Minimum free design high	board of one (1) foot above the 100-year water elevation for facilities with an
	o, o, o,		lway. board of two (2) feet above the 100-year ater elevation for facilities without an
	000	National Engine Basin Sedimen	llway or in accordance with the SCS tering Handbook (prior approval required). t Clean-Out elevation (permanent mode). 25 percent of water quality volume.
ø o	CROSS SE	CTION THROUG	H FACILITY
/ \	000	Existing Groun	
	000	Proposed grade	
	000	Top of facility -	constructed and settled.
	000		ergency spillway with side slopes labeled
			trench (4' minimum).
	000	Location of each	
	000	Barrel location.	
	000	Existing and pro	oposed utility location/protection.
	EMERGEN	CY SPILLWAY P	ROFILE
	000	Existing ground	
		Inlet, level (con	trol) and outlet sections per SCS.
	000	Spillway and cro	
	using require facility type basins, sum	red pretreatment Including, but no ps, grass chann	of adequate depth and properly designed volumes for the selected County BMP of limited to: sediment forebays, sediment els, gravel diaphragms, plunge pools, ured systems or other acceptable methods.

Yes No N	/ A	
X 0 0	CONSTRU	UCTION SPECIFICATIONS and NOTES
		Anticipated sequence of construction for BMP (consistent with erosion and sediment control plan).
	000	Provisions to control base stream or storm flow conditions
		encountered during construction.
		Site and subgrade preparation requirements.
	000	Embankment, fill and backfill material soil and placement (lift) thickness requirements.
	000	Compaction and soil moisture content requirements.
	000	Geosynthetics for drainage, filtration, moisture barrier, separation, and reinforcement purposes.
	000	Clay or synthetic (PVC or HDPE) pond liners.
	000	Storm drain, underdrain and pipe conduit requirements.
	000	Minimum depth of pipe cover for temporary (construction)
		and final cover conditions.
		Permanent shutoff valve and pond drain.
		Concrete requirements for structural components.
		Riprap and slope protection.
		Access or maintenance road surface, base, subbase.
		Temporary and permanent stabilization measures.
		Temporary or permanent safety fencing.
		BMP Landscaping (deep, shallow, fringe, perimeter, etc.)
		Dust and traffic control (if warranted).
		Construction monitoring and certification by professional. Other:
		Other:
. <i>1</i>		Other
		ANCE PROVISIONS
		Entity responsible for maintenance identified
		Maintenance Plan which outlines the long-term schedule for inspection/maintenance of the facility and forebays
	000	Maintenance access from public right-of-way or publicly
		traveled road.
	000	Maintenance easement provided encompassing high water pool and buffer, principal and emergency spillways, outlet structures, forebays, embankment area and possible
		sediment-removal stockpile areas.
	000	Minimum 6 foot wide public safety shelf (landing) or alternative fencing.

IV.	OUTLET PROTECTIO	DNS:
	Yes No N/A Q	Sized for maximum design release (generally 10-year storm). Flared end section or endwall. Dimensions. Rock or riprap size, quantity and placement thickness. Slope at 0 percent (Level Grade). Geotextiles (nonwoven). Special energy dissipators are required for design discharge velocities that exceed eighteen (18) feet per second; or if use of standard outlet protection would result in velocities exceeding permissible channel velocities; or if space restricts or limits their use.
v.	ADDITIONAL COMM	ENTS OR INFORMATION SPECIFIC TO THE PLAN:
		Plan Preparer:
		Date: 3/19/24

SWMProg/BMP/Checklist/ChkList



James City County Environmental Division Stormwater Management/BMP Record Drawing and Construction Certification Review Tracking Form

Pro	oject Name: Villa Enfrance Bul
Co	unty Plan No.: \$7-05-04
	ormwater Management Facility: Wet Rend
₽.	IP Phase #: ☐ I ☐ III ☐ III Information Package Received. Date/By: 12 16 08 Wes Becer
	Completeness Check:
4	Record Drawing Date/By: 12/16/08 Mare Bennett
	Construction Certification Date/By: 12/15/08 Michael Galli
	RD/CC Standard Forms (Required for all BMPs after Feb 1 st 2001Only)
	Insp/Maint Agreement # / Date: 25000 \$225 2/23/2005
	BMP Maintenance Plan Location: Sheek 8
	Other:
X	Standard E&SC Note on Approved Plan Requiring RD/CC or County comment in plan review
	Yes No Location: Sheel 9 Item 20
X	Assign County BMP ID Code #: Code: & 38
A.	Preliminary Input/Log into Division's "As-Built Tracking Log"
	Add Location to GIS Map. Obtain basic site information (GPIN, Owner, Address, etc.)
	Preliminary Log into Access Database (BMP ID #, Plan No., GPIN, Project Name, etc.) Active Project File Review (correspondence, H&H, design computations, etc.).
	Initial As-Built File setup (File label, folder, copy plan/details/design information, etc.).
×	Inspector Check of RD/CC (forward to Inspector using transmittal for cursory review).
X	Pre-Inspection Drawing Review of Approved Plan (Quick look prior to Field Inspection).
X	Final Inspection (FI) Performed Date: 71510
¥	Record Drawing (RD) Review Date: 21110
	Construction Certification (CC) Review Date: 23150
X	Actions:
	No comments.
	Comments. Letter Forwarded. Date:
	Record Drawing (RD)
	□ Construction Certification (CC)
	Construction-Related (CR) Site Issues (SI)
	Other:
	Second Submission: NA
S	Reinspection (if necessary): All CONSTRUCTION RELATED ISSUES CONTRATED
x	Acceptable for SWM Purposes (RD/CC/CR/Other). Ok to proceed with bond release.
×.	Complete "Surety Request Form".
	Check/Clean active file of any remaining material and finish "As-Built" file.
Ŋ.	Add to County BMP Inventory/Inspection schedule (Phase I, II or III).
	Copy Final Inspection Report into County BMP Inspection Program file.
	Obtain Digital Photographs of BMP and save into County BMP Inventory.
	Request mylar/reproducible from As-Built plan preparer.
	Complete "As-built Tracking Log".
<u> </u>	Last check of BMP Access Database (County BMP Inventory).
0	Add BMP to JCC Hydrology & Hydraulic database (optional). Add BMP to Municipal BMP list (if a County-owned facility)
	Add BMP to PRIDE BMP ratings database.
u	The Diff to Fitte Drift turings additions.
	// Final Sign-Off
	$\int \int $
	1 / bku si
In	spector: Date: _/*/
Ch	nief Engineer: Date:

*** See separate checklist, if needed.



James City County Environmental Division Stormwater Management / BMP Inspection Report **Detention and Retention Pond Facilities**

County BMP ID Code (if known): 1238		
Name of Facility: Windson Mede Villas Enfrance	BMP No.: / of / Date:	April 7, 2009
Windows Wends - DATE GLOW Charles	•	
Name of Owner: McHudich Homes of Virginia Name of Inspector: Gregory B. Johnsy		
Name of Inspector: Gregory B. Johnsy		
Type of Facility: Wayton Pord		
Weather Conditions: Warm Sunny Type: D Final Inspection	☐ County BMP Inspection Program	☐ Owner Inspection
If an inspection item is not applicable, mark NA, otherwise mark the approp	oriate column.	
O.K The item checked is in adequate condition and the maintenance	e program is currently satisfactory. No	o action required.

Routine - The item checked requires attention, but does not present an immediate threat to the function/integrity of the BMP.

Urgent - The item checked requires immediate attention to keep the BMP operational and to prevent damage to the facility.

Provide an explanation and details in the comment column, if routine or urgent are marked.

Facility Item	O.K.	Routine	Urgent Comments
Embankments and Side	e Slopes:		
Grass Height		/	Necks Mowing
Vegetation Condition	/		
Tree Growth	1		
Erosion			
Trash & Debris		/	Rosove trash from inside
Seepage			
Fencing or Benches	~		
Interior Landscaping/I	Planted Area	as:	cted Wetland/Shallow Marsh
Vegetated Conditions			
Trash & Debris		✓	Remove trash and debuis
Floating Material	-,		
Erosion			
Sediment	V		
Dead Plant	√		Non observed
Aesthetics	✓		
Other			
Notes:			

horeline Erosion			
Algae			
Trash & Debris			
Sediment			
Aesthetics			
Other			
Inflows (Describe Type	es/Locations):	1 244 441	
Condition of Structure			Rig ray needs to be below flore lip
Erosion			
Trash and Debris			
Sediment		/	saliman nous to be ranowy
Outlet Protection			Remone mil raf Riprep stillin basin not on Approval pa
Other		/	Riprep stillin basin not on Approval po
Principal Flow Contro	Structure - I	Riser, Intake, etc. (Describe T	
Condition of Structure			
Corrosion			
Trash and Debris			
Sediment		·	
Vegetation			
Other			
Principal Outlet Struct	lure - Barrel,	Conduit, etc. :	
Condition of Structure			
Settlement			
Trash & Debris			
Erosion/Sediment		/	Tol of SLOTE
Outlet Protection		/	Gip you needs to be placed below lip
Other			Repropries to be placed below lip Debais needs to be cleared Gion Chim
Emergency Spillway (Overflow):		
Vegetation	/		No. 1
Lining	1		
Erosion		1	Ension occuring of lower edge
Trash & Debris	/		1
	 		

Facility Item	О.К.	Routine	Urgent	Marie Care Care Care Care Care Care Care Car	Comme	ng Papagasan na ang Kabana (1966) ng papaga Ng Papagasan ang kabana na Papagasan ng Papagasan	
Nuisance Type Condition	ons:						
Mosquito Breeding	/						
Animal Burrows	1				· · · · · · · · · · · · · · · · · · ·		
Graffiti	1						
Other							
Surrounding Perimeter	Conditions:		<u></u>		· · · · · · · · · · · · · · · · · · ·		
Land Uses							
Vegetation		✓	·	Work to he v	emoved Rio	m channels	
Trash & Debris	-	/		,,			
Aesthetics	1						
Access /Maintenance Roads or Paths	/						
Other							
Remarks:							
Overall Environmental	Division Int	ernal Rating·					
O . VI MII DIII VIIII VIII VIIII VIIII VIIII VIIII VIII VIIII VIII VIIII VIII VIII VIII VIII VIII VIII VIII VIIII VIII VII VIII VIII VIII VII VIII VIII VIII VIII VII VIII V	ZITIOIUII IIII	ai 1/44ing					
	_ (-						•
	Phin			Date: 4/2/20	ยใ		
Signature	$(-1, \dots)$			Date:	<u> </u>		

 $SWMProg \ BMP \ CoInspProg \ InspForms \ DetRet.wpd$



James City County, Virginia Environmental Division

Stormwater Management / BMP Facilities Record Drawing and Construction Certification Forms

(Note: In accordance with the requirements of the Chesapeake Bay Preservation Ordinance, Chapter 23, Section 23-10(4), BMP's shall be designed and constructed in accordance with the manual entitled James City County Guidelines for Design and Construction of Stormwater Management BMP's. Erosion and sediment control policy and approved plans generally require that at the completion of the project and prior to release of surety, an "as-built" plan prepared by a registered Professional Engineer or Certified Land Surveyor must be provided for the drainage system for the project, including any Best Management Practice (BMP) facilities. In addition, for BMP facilities involving the construction of an impounding structure or dam embankment, certification is required by a Professional Engineer who has inspected the structure during its construction. Currently there are over 20 water quality type BMP's accepted by the County.)

Section 1 – Site Information:

Project Name:	Villa Entrance & Sewer Constru	iction Plan Windsor Meade of	Williamsburg
Structure/BMP Name:	Villa Entrance BMP		
Project Location:	3975 Windsormeade Way Willi		
BMP Location:	By the guard shed, off of Winds	ormeade Way	
County Plan No.:	SP - 05	- 04	
Project Type: Residen Commer Institutio Public Other R	ercial Office	Tax Map/Parcel No.: BMP ID Code (if known): Zoning District: Land Use: Site Area (sf or acres):	(38-3)(1-34A) FC 23 S MU (Mixed Use) Single Family - Suburban 105.93 acres
Brief Description of Stormwater Management/BMP Facility: <u>Villa Entrance BMP is an Detention Dry Pond (Type F-2).</u> This BMP is has a drainage area of 2.08 acres, mainly roadway drainage.			
Nearest Visible Landmark to	SWM/BMP Facility: G	uard shed and roadway inters	ection.
Nearest Vertical Ground Cont JCC Geodetic Gro Station Number or Na	ound Control USGS	☐ Temporary	Arbitrary Other
Datum or Reference I	Elevation: NAD-83		
Control Description:		9, VA State Plane Coordinate	es-South Zone (NAD83)(1986)
Control Location from Subject Facility: Control is located at Berkeley Elementary School.			

Section 2 – Stormwater Management / BMP Facility Construction Information: PreConstruction Meeting Held for Construction of SWM/BMP Facility: Unknown ✓ Yes No Approx. Construction Start Date for SWM/BMP Facility: Aug-2008 Yes No Unknown Facility Monitored by County Representative during Construction: Name of Site Work Contractor Who Constructed Facility: C.A. Barrs Contractors, Inc. Name of Professional Firm Who Routinely Monitored Construction: ECS Mid-Atlantic, LLC. Date of Completion for SWM/BMP Facility: Oct-2008 Date of Record Drawing/Construction Certification Submittal: Sept-2008 (Note: Record Drawing and Construction Certifications are required within thirty (30) days of the completion of Stormwater Management and/or BMP facility construction. Record Drawings and Construction Certifications must be reviewed and approved by the James City County Environmental Division prior to final inspection, acceptance and bond or surety release.) Section 3 – Owner / Designer / Contractor Information: Owner/Developer: (Note: Site Owner or Applicant responsible for development of the project.) Name: Virginia United Methodist Homes, Inc. Mailing Address: 4704 Shotley Way Williamsburg, VA 23188 Fax:(757) 941-3611 Business Phone: (757) 565-6200 Title: Executive Director Contact Person: Richard Bottone (Note: Professional Engineer or Certified Land Surveyor responsible for the design and Design Professional: preparation of plans and specifications for the Stormwater Management / BMP facility.) Firm Name: AES Consulting Engineers Mailing Address: 5248 Olde Towne Road, Suite 1 Williamsburg, VA 23188 (757) 253-0040 **Business Phone:** Fax: (757) 220-8994 V. Marc Bennett, PE Responsible Plan Preparer: Title: Senior Project Manager Villa Entrance & Sewer Construction Plan Windsor Meade of Williamsburg Plan Name: 8818-04 Firm's Project No. Plan Date: 05/12/2004 Sheet No.'s Applicable to SWM/BMP Facility: SH1 / SH7 / SH8 / **BMP Contractor:** (Note: Site Work Contractor directly responsible for construction of the Stormwater Management / BMP facility.) Name: C.A. Barrs Contractors, Inc. Mailing Address: P.O. Box 1489 Yorktown, VA 23692-1489 **Business Phone:** (757) 898-7282 Fax: (757) 898-1282 Contact Person: Erik R. Turkovich M. Scott St. Clair Site Foreman/Supervisor: Specialty Subcontractors & Purpose (for BMP Construction Only):

Section 4 - Professional Certifications:

Certifying Professionals: (Note: A Registered Professional Engineer of Certified Land Surveyor is responsible for

preparation of a Record Drawing, sometimes referred to as an As-Built plan, for the drainage system for the project including any Stormwater Management/BMP Facilities. A Registered Professional Engineer is responsible for the inspection, monitoring and certification of Stormwater Management / BMP facilities during its construction.)

Record Drawing and Construction Certifications for Stormwater Management / BMP Facilities

Record Drawing Certification

Firm Name: AES Consulting Engineers

Mailing Address: 5248 Olde Towne Road, Suite 1

Williamsburg, VA 23188

Business Phone: (757) 253-0040

Fax: (757) 220-8994

Name: April Denierr

Title: Served Prosect Marker

I hereby certify to the best of my knowledge and belief that this record drawing represents the actual condition of the Stormwater Management / BMP facility. The facility appears to conform with the provisions of the approved design plan, specifications and stormwater management plan, except as specifically noted.

Signature: Date:

VAN MARC BENNETT Lic. No/026628

In Muc Suc (Seal)

Virginia Registered Professional Engineer Or Certified Land Surveyor

Construction Certification

Firm Name: ECS Mid-Attant & LLC

Mailing Address: 108 Ingran Rd, ste, 1

Williansbury, VA 23188

Business Phone: 229-6677

Fax: 229 9978

Name: Michael J. Galli

Title: principal

Signature:

I hereby certify to the best of my knowledge and belief that this Stormwater Management / BMP facility was monitored and constructed in accordance with the provisions of the approved design plan, specifications and stormwater management plan, except as specifically noted.



_ (Seal)

Virginia Registered Professional Engineer

STORMWATER MANAGEMENT / BMP FACILITIES RECORD DRAWING CHECKLIST

(Key for Checklist is as follows: XX Acceptable N/A Not Applicable Inc Incomplete) Methods and Presentation: (Required for all Stormwater Management / BMP facilities.) All constructed facilities meet approved design plans, unless otherwise shown. Record XX1. information or deviations from approved design plan shown in clearly annotated format and/or boxed beside design values. 2. Elevations to the nearest 0.1' unless higher accuracy is needed to show positive drainage. XXAll plan sheets labeled with "RECORD DRAWING" in large text in lower right hand corner XX3. (Approved County Plan Number and BMP ID Code can be included if known). All plans sheet revision blocks modified to indicate date and record drawing status. XX4. XX 5. All plan sheets have certification statements and certifying professional's signature and seal. II. Minimum Standards: (Required for all Stormwater Management / BMP facilities, as applicable.) All requirements of Section I (Methods and Presentation) apply to this section. XX1. Plan Views: Show general location, arrangement and dimensions. Location and alignment shall 2. XXgenerally match approved design plans. Profile or elevations along top or berm of the facility. At a minimum, elevations are required at XX3. each end, at intervals not to exceed 50 feet and where low spots may be present. Top of embankment or berm elevations must be no less than design elevation plus any settlement allowances. Top widths, berm widths and embankment side slopes. XX4. Show length, width and depth of facility or grading, contours or spot elevations as required to XX5. verify permanent pool and design storage volumes were met or were reasonably close to the approved design. Evaluation of as-built grading, contours, spot elevations, or cross-sections, may be necessary by the professional to ensure approved design configurations, depths and volumes were closely maintained. If grading or elevations are significantly different from the approved plan, the Environmental Division shall be contacted immediately to determine whether the variation is acceptable or whether further evidence will be required. Facilities which do not closely resemble approved plan grades, elevations or configurations may require regrading by the Contractor; check volumetric computations; and/or a check hydraulic routing to ensure approved design water surface elevations, discharges or freeboard were closely maintained. Cross-section of the embankment through the principal spillway or outlet barrel. Must extend at XX6. least 100 ft. downstream of the pipe outlet or to recorded site property line, whichever is closer. Proper correlation is required between principal spillway (control structure) crest, emergency spillway crest, orifice and weirs and the top of the dam or facility. All elevations and dimensions must reasonably match the design plan or be sequentially relative to each other and the facility must reflect the required design storage volume(s) and/or design depth. Profile or elevations along the entire centerline of the emergency spillway. Emergency spillway N/A 7. may be steeper, but no flatter or narrower than design. XXElevation of the principal spillway crest or outlet crest of the structure.

XX	9.	Primary control structure (riser) diameter or dimensions, height, type of material and base size. Indicate provisions for access that are present such as steps, ladders, etc.
XX	10.	Dimensions, locations and elevations of outlet orifices, weirs, slots and drains.
XX	11.	Type and size of anti-vortex and trash rack device. Height, diameter, dimensions, bar spacings (if applicable) and elevations relative to the principal spillway crest. Indicate if lockable hatch is present or not.
XX	12.	Type, location, size and number of anti-seep collars or documentation of other methods utilized for seepage control. May need to obtain this information during construction.
XX	13.	Top of impervious core embankment, core trench limits and elevation of cut-off trench bottom. May need to obtain this information during construction.
XX	14.	Elevation of the principal spillway barrel (outlet pipe) inlet and outlet invert.
<u>XX</u>	15.	Outlet barrel diameter, length, slope, type and thickness class of material and type of flared end sections, headwall or endwall.
<u> XX</u>	16.	Outfall protection dimension, type and depth of rock and if underlain filter fabric is present.
XX	17.	BMP interior and periphery landscaping zones conform with arrangements and requirements of the approved design plan.
XX	18.	Maintenance plan taken from approved design plan transposed onto record drawing set.
N/A	19.	Fencing location and type, if applicable to facility.
<u> XX</u>	20.	BMP vicinity properly cleaned of stockpiles and construction debris.
<u>_XX</u>	21.	No visual signs of erosion or channel degradation immediately downstream of facility.
N/A	22.	Any other information formally requested by the Environmental Division specific to the constructed SWM/BMP facility.

STORMWATER MANAGEMENT / BMP FACILITIES RECORD DRAWING CHECKLIST

(Key for (Checklis	t is as follows: XX Acceptable N/A Not Applicable Inc Incomplete)
VIII.	Group	o F – Extended Dry Detention (Includes F-1 Timber Walls; and F-2 Dry Extended Detention with Forebay)
XX	F1.	All requirements of Section II, Minimum Standards, apply to Group F facilities.
<u> XX</u>	F2.	Basin bottom has positive slope and drainage from all basin inflow points to the riser (or outflow) location.
N/A	F3.	Timber wall BMP used in intermittent stream only. (ie. Prohibited in perennial streams.)
N/A	F4.	Forebay provided approximately 20 ft. upstream of the facility. Forebays generally 4 to 6 feet in depth.
XX	F5.	A reverse slope pipe, vertical stand pipe or mini-barrel and riser was provided to prevent clogging
XX	F6.	Principal spillway and outlet barrel provided consisting of reinforced concrete pipe with O-Ring gaskets for watertight joint construction.
<u>_xx</u>	F7.	Mini-barrel and riser, if used, contains a removable trash rack to reduce clogging.
XX	F8.	Low flow orifice, if used, has a minimum diameter of three (3) inches or two (2) inches if internal orifice control was utilized and a small, cage type external trash rack.
N/A	F9.	Timbers properly reinforced or concrete footing provided if soil conditions were prohibitive.
N/A	F10.	Timber wall cross members extended to a minimum depth of two (2) feet below ground elevation.
XX	F11.	Protection against erosion and scour from the low flow orifice and weir-flow trajectory provided.
XX	F12.	Stilling basin or standard outlet protection provided at principal spillway outlet.
XX	F13.	Adequate, direct access provided to the facility. Access corridor to facility is at least ten (10) feet wide, slope is less than twenty (20) percent and appropriate stabilization provided for equipment and vehicle use. Access extends to forebay, standpipe and timber wall, as applicable.
N/A	F14.	No visual signs of undercutting of timber walls or clogging of the low orifice were present.
XX	F15.	No visual signs of erosion or channel degradation immediately downstream of facility.
XX	F16.	No visible signs of accumulated silt/sediment were present in the facility following construction or alternately, accumulated silt/sediment was properly removed and no adverse affects to the function of the facility are anticipated.

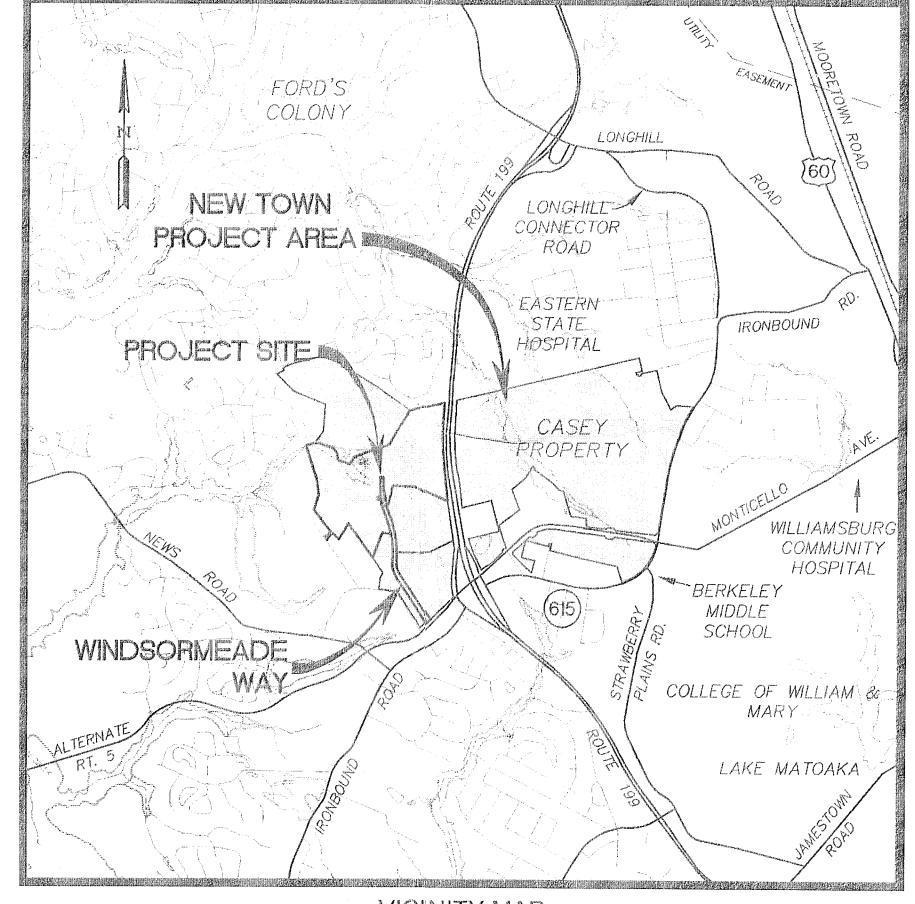
BMP RECORD DRAWINGS

EXISTING		PROPOSED	EXISTING		PROPOSED
— W —— O	WATER GRAVITY SEWER	eneration excession W American consiste An		BLOW-OFF ASSEMBLY CLEAN OUT	d
⊗S⊗	GRAVITY SEWER (BY OTHERS)	⊗S⊗		WATER METER	**************************************
	STORM SEWER			CENTERLINE/BASELINE	Modern and a shadow to the shadow according to the shadow
	FORCE MAIN		AND THE RESERVE OF TH	RIGHT OF WAY	CALLEGE AND SHEET SHEET SHEET SHEETS SHEETS
	MANHOLE	sate neutronominata de Maria como constituiros	equilibrium appropriate a service and the serv	PROPERTY LINE	Analysis of the 120 and approximately
EXECUTED TO SELECT SECUL SEASON	CURB DROP INLET		differe Spin-	€ DITCH/SWALE	also constructive to a segmentation of the second
NAMES AND STREET STREET	YARD DROP INLET			EXISTING TREELINE	
	VALVE	NORTH AND THE PROPERTY OF THE		GROUND ELEVATION	
	FIRE HYDRANT ASSEMBLY	succession and of the Space Space	5	EXISTING CONTOUR ELEV.	

NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS UTILITY FOR EXISTING UTILITY LOCATIONS PRIOR TO COMMENCING CONSTRUCTION.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF CONSTRUCTION EFFORTS WITH THE DOMINION VIRGINIA POWER COMPANY, VERIZON TELEPHONE, APPROPRIATE CABLE COMPANY AND OTHERS THAT MAY BE REQUIRED.
- 3. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO ALL SITE CONDITIONS PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF WORK.
- 5. RESEARCH HAS SHOWN NO EVIDENCE OF ENVIRONMENTAL OR HEALTH HAZARDS ON THIS SITE.
- 6. ALL UTILITIES WILL BE PLACED UNDERGROUND.
- 7. A PRECONSTRUCTION CONFERENCE SHALL BE HELD ON—SITE BETWEEN THE COUNTY, THE PROJECT ENGINEERS AND THE CONTRACTOR PRIOR TO ISSUANCE OF A LAND DISTURBING PERMIT.
- 8. ALL SANITARY SEWER AND WATER FACILITIES MUST HAVE A 5 FOOT MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN IT AND ALL OTHER FIXED STRUCTURES, SUCH AS: DROP INLETS, FIRE HYDRANTS, LIGHT POLES, AND STORM SEWER PIPES, ETC.
- 9. ANY EXISTING UNUSED WELLS SHALL BE ABANDONED IN ACCORDANCE WITH STATE PRIVATE WELL REGULATIONS AND JAMES CITY COUNTY CODE. PERMITS CAN BE ACQUIRED FROM THE VIRGINIA DEPARTMENT OF HEALTH, WILLIAMSBURG OFFICE. TELEPHONE NUMBER: 757-253-4813
- 10. THE TOPOGRAPHIC DATA REPRESENTED ON THIS DRAWING IS SUPPLIED BY OWNER/DEVELOPER. CONTOUR INTERVAL = 2 FEET.
- 11. ALL SECURITY LIGHTING IS TO BE LOCATED A MINIMUM OF 10' OFF THE EDGE OF PAVEMENT AND SHALL NOTE BE POSITIONED IN DITCH LINES.
- 12. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.
- 13. ALL EXISTING STRUCTURES LOCATED ON THE SITE ARE TO BE DEMOLISHED AND WILL REQUIRE A DEMOLITION PERMIT. THIS PERMIT CAN BE ACQUIRED FROM THE JAMES CITY COUNTY CODE COMPLIANCE DEPARTMENT, TELEPHONE NUMBER: 757-253-6626
- 14. ALL FIRE HYDRANTS INSTALLED SHALL FACE WINDSORMEADE WAY UNLESS OTHERWISE NOTED.
- 15. NO TREES, SHRUBS, FENCES OR OBSTACLES SHALL BE PLACED WITHIN A JCSA EASEMENT WHICH WOULD RENDER THE EASEMENT INACCESSIBLE BY EQUIPMENT. SHRUBS SHALL BE A MINIMUM OF 5 FEET, AND TREES A MINIMUM OF 10 FEET, FROM THE CENTER OF WATER AND SEWER PIPELINES.
- 16. ALL ROADS SHALL BE PLACED WITHIN PRIVATE RIGHT-OF-WAYS.
- 17. JCSA SHALL BE GRANTED ACCESS EASEMENTS TO WATER AND SEWER LOCATED WITHIN PRIVATE RIGHT-OF-WAYS.
- 18. ALL ROADS SHALL BE PLACED WITHIN PRIVATE RIGHT—OF—WAYS AND SHALL NOT BE MAINTAINED BY JAMES CITY COUNTY OR VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT). THE PRIVATE; RIGHT—OF—WAYS WILL REMAIN PRIVATELY OWNED AND ARE TO PROVIDE ACCESS FOR MAINTANCE OF UTILITIES AND INGRESS/EGRESS WITHIN THE PROPERTY.
- 19. ONLY JCSA PERSONNEL ARE AUTHORIZED TO OPERATE VALVES ON EXISTING MAIN.
- 20. STORM STRUCTURES SHALL CONFORM TO THE VDOT ROAD AND BIRIDGE STANDARDS AND VDOT SPECIFICATIONS. ALL MANHOLES AND RISER STRUCTURES SHALL INCLUDE INLET SHAPING (IS-1) AND MANHOLES DEEPER THAN 4 FEET SHALL HAVE STEPS (ST-1). PIPE BEDDING SHALL BE IN ACCORDANCE WITH VDOT PB-1 AND MANUFACTURERS SPECIFICATIONS/GUIDELINES.

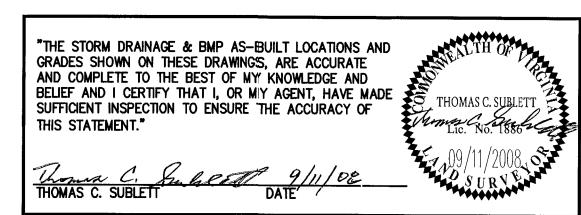
JAMES CITY COUNTY, VIRGINIA

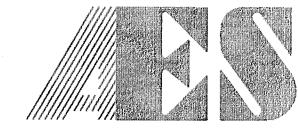


VICINITY MAP SCALE: 1"=2000' JANUARY, 2004

PROJECT NO.: 8818-4

JCC CASE #SP-05-04





CONSULTING ENGINEERS

5248 Olde Towne Road, Suite 1 Williamsburg, Virginia 23188 (757) 253-0040 Fax (757) 220-8994

NDEX OF SHEETS

SHEET NO.	DESCRIPTION
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10	-NOTES AND DETAILS
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11	- LANDSCAPE AND LIGHTING PLAN-

OWNER/DEVELOPER INFORMATION:

VIRGINIA UNITED METHODISTS HOME, INC. 453 McCLAWS CIRCLE, SUITE 2 WILLIAMSBURG, VIRGINIA. 23185 TELEPHONE: (757) 293-2800 CONTACT: JIM FRANKLIN

CERTIFIED RESPONSIBLE LAND DISTURBER:

V. MARC BENNETT, P.E.
AES CONSULTING ENGINEERS
5248 OLDE TOWNE ROAD, SUITE 1
WILLIAMSBURG, VIRGINIA. 23188
TELEPHONE: 757-253-0040

SITE DATA: (WINDSORMEADE OVERALL)

TAX MAP PARCEL No. (38-3)(1-34 A)

ZONING: MU (MIXED USE)

ZONING: MU (MIXED USE) WITH PROFFERS (JCC CASE NO. Z-2-01/MP-2-01)

TOTAL PROJECT AREA: 4,614,364 S.F.± 105.93 AC.±

WATERSHED: POWHATAN CREEK (SUBWATERSHED 209, CATCHMENTS 209-101-1)

SITE DATA: (ENTRANCE + SEWER)

AREA OF PRIVATE R/W: 47,400 S.F.± 1.09 AC.±

DISTURBED AREA: 122,785 S.F.± 2.82 AC.±

IMPERVIOUS AREA: 19,020 S.F.± 0.44 AC.±

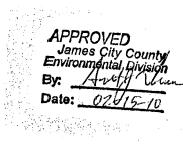
PERMITTED WETLAND DISTURBED AREA: 11,326 S.F.± 0.26 AC.±

FLOOD HAZARD MAP: FFMA P

BY THE WATER LINE.

FEMA PANEL NUMBER 510201 0035 B, DATED 2/6/91 NOTE: SITE IS LOCATED IN ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN)

GUARDHOUSE BUILDING AREA: 288 S.F. (BUILDING USE B, BUSINESS CONSTRUCTION TYPE 5B)



59.005.04

NOTE:
A RPZ BACKFLOW PREVENTER MUST BE PROVIDED
WITHIN THE WINDSOR HALL FACILITY BEING SERVICED

2 5/12/04 REVISED PER JCC COMMENTS 04/04 VMB
1 3/29/04 REVISED PER JCC COMMENTS DATED 3/29/04 VMB
No. DATE REVISION / COMMENT / NOTE BY

BMP RECORD DRAWINGS.: 9-11-2008

